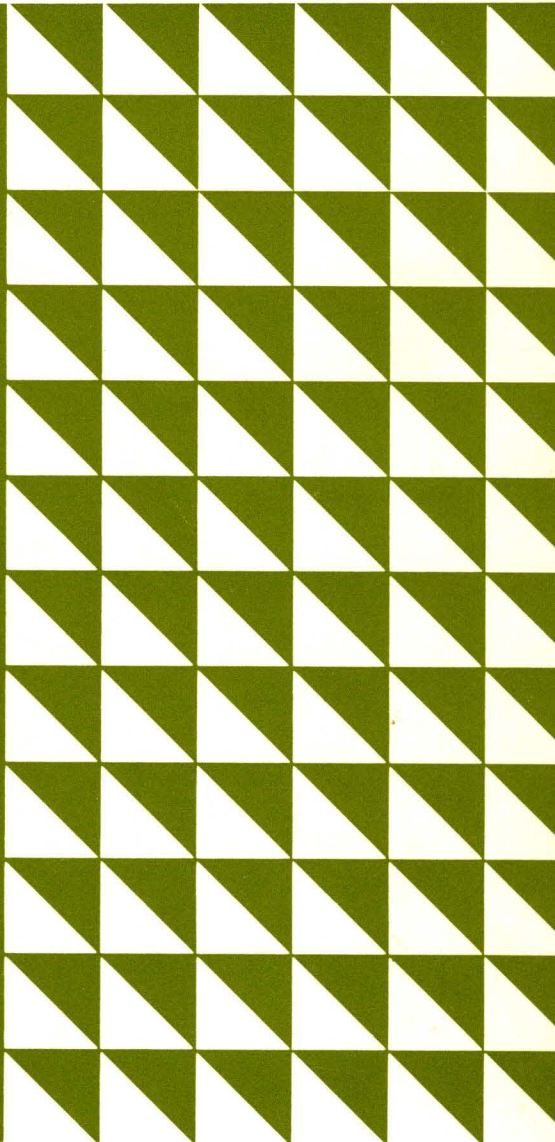




**NCP Release 5  
Data Flow**



**Student Text**



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Data Flow**

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Minor Revision, November 1980

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## Preface

This publication is a student text on data flow in the IBM 3704 and 3705 Communications Controllers network control program (NCP), release 5 data flow. This publication does *not* include information on Advanced Communications Function (ACF) Network Control Program (NCP), which supports multiple, concurrent channel adapters in NCP mode or in multidomain networks.

Prerequisite knowledge of the IBM 3704 and 3705 Communications Controllers is required to understand this material. The prerequisite information may be obtained in the following:

*IBM 3704 and 3705 Communications Controllers Hardware* (SR20-4544)

*IBM 3704 and 3705 Communications Controllers NCP Programming* (SR20-4568)

*Advanced Function NCP and Related Host Traces* (SR20-4510)

*IBM 3704 and 3705 Control Program Generation and Utilities Guide and Reference Manual* (GC30-3008)

A quiz appears at the end of each major section, with the answers given in Appendix B. You will need the following handbook to answer the questions.

*IBM 3704 and 3705 Program Reference Handbook* (GY30-3012)

If you require additional information, please refer to:

*IBM 3704 and 3705 Communications Controllers, Network Control Program/VS Program Logic Manual* (SY30-3013).

*IBM 3704 and 3705 Communications Controllers Principles of Operation* (GC30-3004)

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**Appendix A**

**Appendix B**

**Appendix C**

**Abbreviations**





# Hardware and Programming Structure

<b>Objective</b>	Upon completion of this topic the student should be able to identify the levels of programming and interrupt scheduling.
<b>Review of Hardware Facilities</b>	Before going on to the components of the SDLC network, this section reviews the hardware facilities which are used in the programming design, as well as dispatching code and techniques. In later sections the modules are related to an interrupt level or to a dispatched module. In either case a knowledge of the hardware and dispatcher is required.
<b>Levels of Programming</b>	<p>Because the communications controller is an interrupt-driven unit, the NCP directing the operation of that unit is made up of smaller programs or levels. Interrupts can be caused by the channel, the communication lines, or the program itself.</p> <p>The controller has five program levels. Program level 1 has the highest priority; program level 5 (referred to as the background level) has the lowest priority. Because level 5 has the lowest priority, level 5 code runs when levels 1 through 4 are not executing. For a complete description of the five levels of the controller and the interrupt facility, refer to <i>IBM 3704 and 3705 Communications Controllers Principles of Operation</i> (GC30-3004), Chapter 2: System Structure.</p> <p>Figure 1.1 is a chart of the programming levels indicating the operations performed at each level, the starting address, and the means by which the level gets control. Note that when an attempt is made to execute an instruction at location X'0000', the NCP detects a 'branch to zero', regardless of the program level.</p>

Level	Operations Performed	Starting Address	Means of Getting Control
5	<ul style="list-style-type: none"> <li>● Interpretation of commands from host.</li> <li>● Control of polling and addressing.</li> <li>● Decoding and execution of system examination and modification requests.</li> <li>● Data handling functions.</li> <li>● Block handling functions.</li> <li>● Initiation and termination of line I/O.</li> <li>● Panel functions.</li> <li>● Boundary network node (BNN) processing.</li> <li>● Physical services functions.</li> <li>● Function management.</li> </ul>	N/A	<ul style="list-style-type: none"> <li>● Default from other four levels.</li> </ul>
4*	<ul style="list-style-type: none"> <li>● Buffer management.</li> <li>● Queue management.</li> <li>● Task dispatching.</li> <li>● Supervisory services.</li> </ul>	X'0180'	<ul style="list-style-type: none"> <li>● PCI.</li> <li>● SVC.</li> </ul>
3	<ul style="list-style-type: none"> <li>● Interval timer functions.</li> <li>● Handling of panel functions.</li> <li>● Channel adapter management.</li> <li>● Communication processing deferred from level 2.</li> <li>● Intermediate network node (INN) processing.</li> </ul>	X'0100'	<ul style="list-style-type: none"> <li>● PCI.</li> <li>● Type 1, type 2, type 3 and type 4 CA.</li> <li>● Interval timer.</li> <li>● Panel INTERRUPT push button.</li> </ul>
2	<ul style="list-style-type: none"> <li>● Buffer service for communication lines.</li> <li>● Character service for communication lines.</li> <li>● Bit service for communication lines.</li> </ul>	X'0080'	<ul style="list-style-type: none"> <li>● Type 1, type 2, and type 3 scanner.</li> </ul>
1	<ul style="list-style-type: none"> <li>● Machine check handling.</li> <li>● Program check handling.</li> <li>● Adapter check handling.</li> <li>● IPL procedure.</li> <li>● Address trace facilities.</li> </ul>	X'0010'	<ul style="list-style-type: none"> <li>● IPL.</li> <li>● Address exception check.</li> <li>● Type 1, type 2, type 3 and type 4 CA checks.</li> <li>● Type 1, type 2, and type 3 scanner checks.</li> <li>● Address compare.</li> <li>● Protection check.</li> <li>● Input/output check.</li> </ul>
x	<ul style="list-style-type: none"> <li>● Detection of branch to zero.</li> </ul>	X'0000'	<ul style="list-style-type: none"> <li>● Branch to zero.</li> </ul>

\* Level 4 operations can also be performed at levels 1 and 3.

Figure 1.1. Program Levels

*Level 1, Address X'0010'*

When a level 1 interrupt occurs, control is given to the level 1 router, which is located at address X'0010'. By examining the contents of external registers, the router determines the cause of the interrupt and passes control to one of the following handlers: the program exception check-handler, the address trace module, the channel adapter check-router, the communications adapter check-handler, or the abend module.

*Level 2, Address X'0080'*

When a level 2 interrupt occurs, control is given to address location X'0080'. The level 2 router determines if the interrupt was a normal character service request. The address of the router is located in the CCB. The level 2 router itself processes hardware error and exceptional conditions.

*Level 3, Address X'0100'*

When a level 3 interrupt occurs, control is given to address location X'0100'. By examining the external registers, the level 3 router determines the cause of the interrupt, then passes control to one of the following interrupt handlers: the channel adapter input/output supervisor, the communications-line timer service, the communications control program queue-handler (signaled by a PCI), or the panel support module.

*Level 4, Address X'0180'*

When a level 4 interrupt occurs, control is given to address location X'0180', the level 4 interrupt handler. An SVC interrupt occurs when a supervisor macro is issued in program level 5. The program issuing the macro specifies certain parameters. After decoding the SVC code, the supervisor nucleus loads these parameters into registers and calls the appropriate supervisor SVC routine to process the request. If the interrupt is a program-controlled interrupt (PCI), the interrupt handler branches to the address in the PCI vector table to process the request.

*Level 5*

All level 5 tasks are dispatched by the level 4 task dispatcher. The entry point of each task is provided as a field in the queue control block (QCB), which is scheduled by placing the QCB in one of the supervisor dispatching queues. The dispatching of level 5 tasks is covered later in the supervisor section.

**Interrupt Scheduling**

Each programming level, except level 5, has an 'interrupt pending' latch and an 'interrupt entered' latch. An 'interrupt pending' latch is set for levels 1, 2, 3, or 4 by hardware service requirements. If a program check occurs, the level 1 'interrupt pending' latch is set. If a line requires service, the level 2 'interrupt pending' latch is set. Channel service requires the level 3 'interrupt pending' latch to be set. The level 3 latch is set for service by the channel adapter, but service is initiated by a PCI (OUT X'7C') from the level 4 supervisor. Level 4 is initiated in levels 1 and 3 by a PCI (OUT X'7D') or by supervisor calls (SVC) from level 5.

Interrupt levels may be masked off to prevent interrupts. Levels 2 through 5 may be totally suppressed. Level 1 may be masked to ignore channel adapter and scanner interrupts for test purposes. If the level is not masked off and an

interrupt is pending, the interrupt is not allowed if any of the following conditions exist:

- A higher-priority interrupt request is present.
- The program level to be interrupted is already entered ('interrupt entered' latch is on).
- The program level to be interrupted is masked.
- A type 3 communication scanner cycle-steal request exists.
- A type 2 or 3 channel adapter cycle-steal request exists.

At the time an interrupt is honored, the 'interrupt entered' latch for that program level is turned on. The 'interrupt entered' latch is a hardware latch which signals the controller that the associated program level has been entered. As long as this latch is on, no other interrupts to this program level are honored. The general registers and condition latches for this level are safe from change by another interrupt. The 'interrupt entered' latch is turned off either by an EXIT instruction executed at this level or by a reset condition to the entire controller.

After each instruction is executed, the controller tests for priority conditions before executing the next instruction. The type 3 communications scanner and type 2 or 3 channel adapter cycle-steal requests occur between instructions. In addition, a higher-priority program level may need control. If level 3 code is executing ('interrupt entered' latch on) before executing each additional instruction the controller checks, in sequence, the 'level 1 entered' latch, 'level 1 pending' latch, 'level 2 entered' latch, 'level 2 pending' latch, and 'level 3 entered' latch. This sequence returns control to level 3 for another instruction execution.

If a second level 3 interrupt was pending, it is not checked in the sequence because the 'interrupt entered' latch is tested first. If the 'level 2 pending' latch was set, as in the previous example, level 2 code starts executing. The 'level 2 interrupt entered' latch is turned on and level 2 executes until an EXIT instruction turns off the 'interrupt entered' latch. When the between-instruction check is made after the level 2 EXIT instruction, the level 2 interrupt entered latch is off, so the 'level 2 interrupt pending' latch is checked. If that latch is on, the level 2 code executes again with the 'interrupt entered' latch turned on a second time. If the 'level 2 pending' latch is not on, the check returns control to level 3 where the 'interrupt entered' latch is still on. The level 3 code continues, unaware of the interrupt.

### Hardware and Programming Structure Summary

The IBM 3704 and 3705 Communications Controllers provide hardware support for five programming levels. The first four levels are interrupt-driven code, each having an absolute hardware address to begin instruction execution. The fifth level is dispatched under the control of the level 4 supervisor.

# Network Control Program Overview and Data Flow

**Objective** Upon completion of this topic, the student should be able to identify the major programming components of NCP, and the flow of control and data between major components.

**Identifying the Major Components** This section identifies the major components of the network control program and the program level in which the components operate. This material serves as the foundation upon which the detail of future sections is built. The major components of the network are covered in the order of subsequent topics.

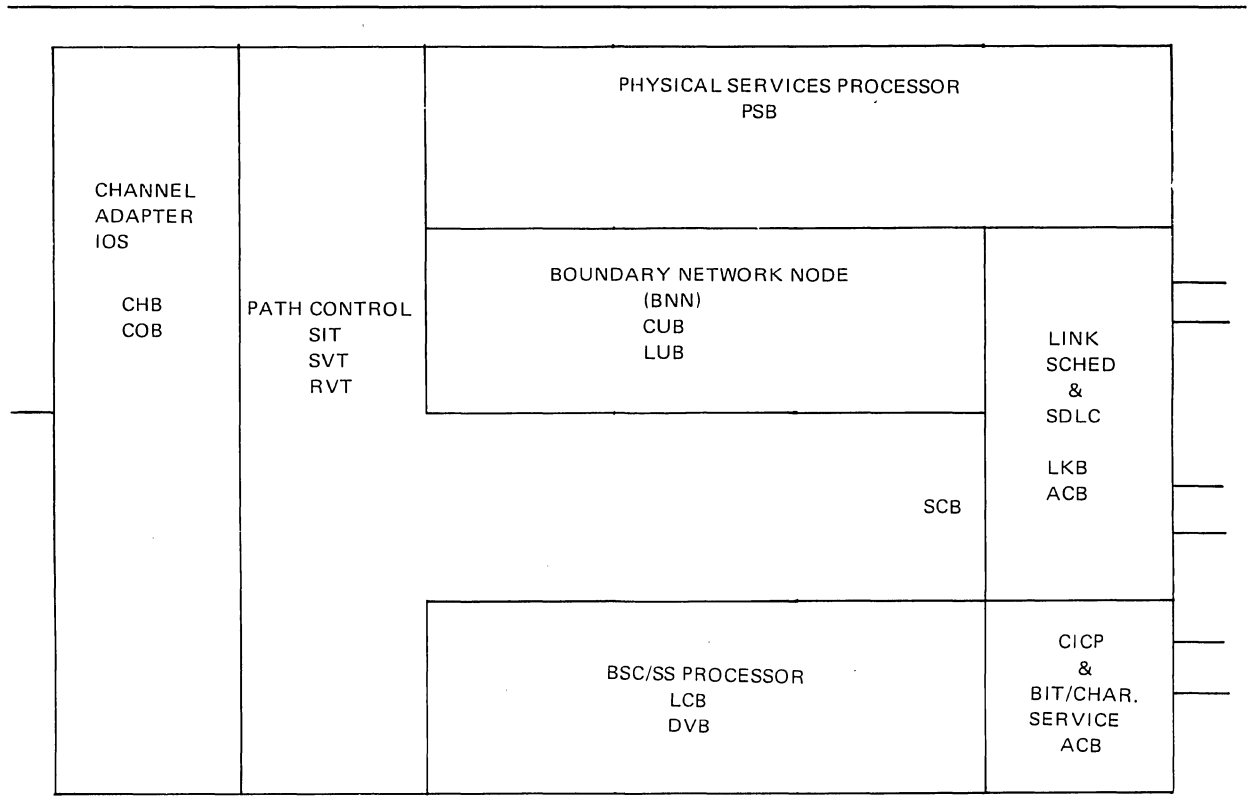


Figure 2.1. NCP Components

## Network Control Program Supervisor

The NCP supervisor serves primarily as the interface between the background tasks running in level 5 and the routines running in levels 1, 3, and 4. When levels 1, 3, or 4 require data to be processed by background tasks, the tasks are scheduled via the supervisor. The supervisor queues the data and schedules the correct background processing task. Conversely, as background tasks require initiation of input or output, manipulation of queues, management of buffers, and similar tasks, the task requests are presented to the supervisor. The supervisor then processes those requests as required.

The supervisor executes in level 4. The primary control blocks used by the supervisor are: byte direct addressables (XDB), halfword direct addressables

(XDH), word direct addressables (XDA), queue control blocks (QCB), path information units (PIU), and the SVC vector table. The supervisor code is executed and provides services for all of the routines identified in this section.

### **Channel Adapter IOS**

The channel adapter module is used to monitor and control the hardware channel adapters within the 3704 or 3705 controller during a data transfer to or from the host. There are four types of channel adapters; however, only two types are used for programming purposes within the controller. Therefore, there are only two types of IOS modules: one to control the type 1 or type 4 adapter, the other to control the type 2 or type 3 adapter.

#### **Type 1 or 4 adapter**

The 3704 supports a type 1 adapter only. A 3705 can have a type 1 or 4 adapter for NCP mode or PEP mode, or the type 1 or 4 adapter can be used for emulation programming for (EP), with a second adapter for NCP mode only. A type 1 or 4 channel adapter for operation in NCP mode uses a channel operation block (COB). The channel modules operate in program level 3 via a level 3 interrupt from the channel adapter hardware.

#### **Type 2 or Type 3 Adapter**

The 3705 operates in NCP mode with a type 2 channel adapter to a single processor or a type 3 channel adapter to two tightly coupled multiprocessors. A type 2 or type 3 channel adapter uses a channel control block (CHB). The channel module operates in program level 3 via a level 3 interrupt from the channel adapter hardware.

### **Path Control**

Path control code is executed on outbound PIUs by a branch from the channel code. Path control inbound, which is different code, is executed on inbound PIUs by a branch from the link scheduler.

#### **Path Control Out**

'Path control out' directs the flow of path information units (PIUs) from the channel adapter IOS to its proper destination. 'Path control out' uses the destination address field (DAF) from the PIU to access entries in the subarea index table (SIT), subarea vector table (SVT), and resource vector table (RVT). The 'path control out' routine locates the appropriate path for the PIU and places the PIU on a queue control block (QCB) for processing by NCP physical services, boundary network node, link scheduler (SCB), or the BSC/SS processor. This module operates in program level 3 via a branch from the channel IOS.

After the boundary network node processing completes, an outbound PIU is passed to 'path control out delayed', which converts the PIU from FID1 to FID2 or FID3, segments the FID2 or FID3 as required, and places the PIU on the link outbound queue.

#### **Path Control In**

'Path control in' is divided into two parts: immediate and delayed. When a PIU is received on a link, 'path control in immediate' is invoked by a branch from the link scheduler. 'Path control in immediate' checks for a PIU source of a remote controller (SCB); if the PIU is from a remote, the PIU is immediately queued on the channel intermediate queue for the host. If the PIU is

not from a remote, the PIU is queued on the CUB link inbound queue and 'path control in immediate' exits from level 3.

The PIU queued on the CUB link inbound queue invokes a level 5 task of 'path control in delayed'. This task processes the PIU to identify the source logical unit or CUB physical services, then branches to an appropriate boundary network node connection point manager IN (CPM-IN) for additional processing.

### **Network Control Program Physical Services**

NCP physical services interfaces with system services control point (SSCP) of the host to provide control functions for the NCP. NCP physical services provide functions such as activating or deactivating links, contacting physical units, and other control functions. These modules use the physical services control block (PSB). The physical services routines operate in program level 5 via the task dispatcher. 'Path control out' schedules physical services by PIU requests. Responses to SSCP are queued directly to channel adapter IOS.

The NCP physical services has a 'connection point manager-in' queue (inbound error-handler queue), which is invoked by the link scheduler at the completion of a 'dial', 'answer', 'contact', or break in a link.

### **Boundary Network Node**

The boundary network node modules provide the interface to SDLC type 1 and type 2 devices. Remote 3704 and 3705 controllers are not included in this code, as PIUs destined for a remote are enqueued directly on a station control block (SCB) by 'path control out'. These modules control the session initiation and session status for the physical units and logical units attached to this 3704 and 3705 controller. These modules operate in program level 5 via task dispatching. Type 1 and 2 physical units are defined by the common physical unit control block (CUB); logical units are defined by the logical unit control block (LUB). BNN modules are scheduled when they receive a PIU from 'path control out'. BNN enqueues PIUs from the host on a link outbound queue for the link scheduler. BNN enqueues PIUs for the host on the channel intermediate queue.

### **Link Scheduler**

The link scheduler executes in program level 3. The link scheduler is invoked for a specific link by an 'activate link' command. The link scheduler has two basic functions: data transfer or command processing.

The link scheduler uses the service order table (SOT) to locate the physical units for that specific link. Each physical unit is checked for active status. If the physical unit is active, the link outbound queue is checked for outbound PIUs to transmit. After any allowed outbound PIU traffic has been sent, the physical unit is polled for inbound PIUs. When all physical units have been checked for data service at least once, the link scheduler switches to control functions. One control function ('dial', 'answer', 'contact', 'discontact') is attempted for one physical unit before the link scheduler returns to data transfer mode.

If there are no outbound PIUs for a link and if no active physical unit has inbound PIUs in response to polling, after the control cycle the scheduler suspends polling for a user-specified pause. Data queued to be transmitted is sent, but polling is suspended.



The link scheduler uses the link control block (LKB) to schedule link operations and maintain link status. The LKB is generated by a LINE macro of an SDLC group. The common physical unit block (CUB) or station control block (SCB) is used to schedule the station control and maintain station status for any SDLC physical unit.

#### **SDLC Routines**

The SDLC routines are used for the actual transmission of data on the link. The adapter control block (ACB) is used for link control. These routines operate in program level 2 via an interrupt from the hardware scanner.

SDLC routines are initiated by the link scheduler, providing addresses of processing routines in the character control block (CCB) and enabling the link for interrupts to begin processing.

#### **BSC/SS Processor**

The BSC/SS processor supports the BSC/SS devices in NCP mode that are attached to this communications controller. The processor uses the line control block (LCB) and the device control block (DVB) to schedule and control commands issued to these devices. Command processors are used to define the commands and the work scheduler is used to schedule the necessary tasks to complete the command. Command decoders and initialization routines initialize the lines and control their operation; character-service routines handle the actual transmission of data across the line. Both types of routines use the adapter control block (ACB). The command processors, work scheduler, and scheduler tasks operate in program level 5 via task dispatching. The command decoders and initialization routines operate in program level 3 via a PCI level 3. The character service routines operate in level 2 via a hardware interrupt from the scanner.

Unless BSC or SS devices are also defined for NCP mode, BSC/SS processor support is not included in a network of SDLC terminals. The processor support routines are not included if BSC/SS devices are operated in emulation mode of a partitioned emulation program (PEP).

#### **Overview Summary**

There are four basic paths through the local controller from the host. The path that is taken depends upon the destination of the path information unit (PIU). The destination and sequences are as follows:

- Physical services destination  
Channel adapter IOS, path control out, physical services processor
- SDLC device or logical unit destination  
Channel adapter IOS, path control out, boundary network node, link scheduler, SDLC routines
- Remote controller destination  
Channel adapter IOS, path control out, link scheduler, SDLC routines
- BSC/SS processor destination  
Channel adapter IOS, path control out, BSC/SS processor, CICP

There are four paths through the local controller to the host, as follows:

- Physical services source  
Physical services processor, channel adapter IOS
- Type 1 or type 2 physical or logical unit source  
SDLC routine, link scheduler, path control in immediate, path control in delayed, boundary network node, channel adapter IOS
- Type 4 physical unit source  
SDLC routine, link scheduler, path control in immediate, channel adapter IOS
- BSC/SS processor source  
CICP, BSC/SS processor, channel adapter IOS



# Network Control Program Supervisor

**Objective** Upon completion of this topic the student should be able to identify and locate the supervisor dispatching queues, identify supervisor services, and explain how the services are requested.

**Purpose of the Supervisor** The NCP supervisor serves primarily as the interface between background tasks running in level 5 and routines running in levels 1, 3, and 4. When levels 1, 3, or 4 require data or a stimulus to be processed by the background tasks, the task is scheduled via the supervisor. The supervisor queues the data and schedules the correct background processing task. Conversely, as background tasks require initiation of input or output, manipulation of queues, management of buffers, etc., the task requests are presented to the supervisor. The supervisor then processes those requests as required.

The supervisor can be entered from the level 4 interrupt handler or via a branch from levels 1, 3, or 4. The supervisor is entered from levels 1, 3, and 4 as a result of supervisor macros which expand to include a branch to the supervisor. This branch is created because of the SUPV=operand of any of the supervisor macros being coded YES. The supervisor routine is then being executed as level 1 or level 3 code rather than level 4 code because it was entered directly, not because of an interrupt. Level 5 always uses a level 4 SVC interrupt to request supervisor services. If level 3 has placed work on the supervisor dispatching queue, the level 4 PCI interrupt latch is set for future processing.

Entry to the level 4 interrupt handler at address X'180' is caused in one of two ways: a level 5 SVC macro or a level 4 PCI.

The level 5 SVC is created by an EXIT instruction. The EXIT instruction and two-byte SVC code immediately following are generated by a level 5 macro which is coded with an operand of SUPV=NO. In this case, the flow is through the level 4 interrupt handler, which uses the SVC code supplied by the level 5 macro expansion to index into the SVC vector table. This table contains pointers to the various supervisor macro routines. The SVC code is the first seven bits of the sixteen-bit field. The remaining nine bits are qualifiers of the SVC.

A level 4 PCI interrupt also causes the level 4 interrupt handler to get control. In this case, the level 4 interrupt passes control to one of three routines via a branch table.

Normally the first entry of the branch table points to the second entry and the second entry points to the third. The third entry always points to the dispatcher. A level 4 PCI interrupt normally causes the dispatcher to get control.

When the free buffer threshold is reached, the second entry is replaced with the address of the routine to generate a slowdown message. Each time the LEASE buffer routine is executed by a branch from level 3 or SVC from level 5, the count of remaining buffers is checked against the threshold value. If slowdown mode is required, the address of the slowdown message routine is

placed in the branch table and slowdown bits are set in the direct addressable area.

If an unconditional buffer request is made and no buffers are available, levels 4 and 5 can be disabled. Level 5 is disabled by masking off level 5, and the address of the buffer allocation routine is placed in the first entry of the dispatcher branch table.

The entry code at X'180' is entered for SVC and PCI interrupts. An IN X'7F' provides a bit to define whether a PCI or SVC caused the interrupt. The result causes the supervisor to go either to the SVC interrupt handler or to the PCI branch table.

## Task Management

A task in the network control program (NCP) is defined as a portion of code and a queue of data upon which the code operates. In the NCP, tasks are executed in level 5 only. If one portion of code operates upon two or more separate queues of data, the task dispatcher handles this portion of code as two or more separate tasks. The background level (level 5) of the NCP is made up of several tasks that work together to schedule lines and process messages.

A task is defined at NCP generation when a queue control block (QCB) is assembled and linked to a unit of code. As queues become activated, their associated tasks are scheduled and initiated by the task dispatcher. Input queues (input to a task) are activated by the enqueueing of data to the queue. Enqueueing is provided by level 3 when a PIU is received over the communication lines or over the channel, or when the enqueueing is provided by one task passing control to another task. Pseudo-input queues (recording a stimulus for the task, but providing no data as input to the task) are activated by triggering the task upon the occurrence of some stimulus, such as a panel display request.

There are several control blocks used by the dispatcher. Before we cover the method used by the supervisor, the topics that follow will acquaint you with some of the control blocks.

*The IBM 3704 and 3705 Program Reference Handbook (GY30-3012), can be used as a reference.*

**Direct Addressables (XDB, XDH, XDA)** There are three fixed areas of special pointers or special fixed data. These areas are:

*Byte direct addressables (XDB)*

X'680' to X'6FF'

*Halfword direct addressables (XDH)*

X'700' to X'77F'

*Word direct addressables (XDA)*

X'780' to X'7FF'

A special form of instruction with a base register of zero allows an implied base to refer to these fields, with the displacement providing the offset from the beginning of the area. The instructions are:

*Insert Character*

IC 5(0),16(0)

The 'insert character' instruction inserts the value at base location X'680' plus decimal 16 (X'10') into register 5 byte 0, for an effective address of X'690'. The true buffer size for this system, including the four-byte prefix, is at X'690'.

*Store Character*

STC 5(0),16(0)

This instruction stores the value in register 5 byte 0 at location X'690' (X'680' plus X'10').

*Load Halfword*

LH 6,84(0)

The 'load halfword' instruction places the current free buffer count from X'700' plus decimal 84 (X'54') into register 6, creating an effective address of X'754'.

*Store Halfword*

STH 6,96(0)

The 'store halfword' instruction uses the value in register 6 to set the value of the system abend code at X'760' (X'700' plus decimal 96). The NCP sets a value at X'760' to indicate the reason the failure occurred.

*Load*

L 6,96(0)

The 'load' instruction moves the address of the last byte of storage from X'7E0' to register 6.

*Store*

ST 6,68(0)

The 'store' instruction records a pointer to the first free buffer at location X'7C4'.

The direct addressables provide key status indicators and pointers to the system control blocks. As the various NCP routines are covered, related direct addressables fields which provide status indicators as an aid in debugging are referenced. These are some of the initial fields which may be of special interest:

*Byte direct addressables (XDB) X'680' to X'6FF'*

X'685'	Control byte for dispatcher flags
X'687'	BUILD macro buffer size
X'689'	Buffer pool and network status
X'68A'	General communications byte
X'68B'	Identifies program as NCP, EP, or PEP
X'692'	General communication byte
X'693'	SDLC subarea mask
X'694'	SDLC element mask

*Halfword direct addressables (XDH) X'700' to X'77F'*

X'710'	to X'72B' PEP emulation queue pointers
X'744'	to X'752' NCP level 4 task queue pointers
X'754'	Current free buffer count
X'756'	Free buffer threshold count plus one
X'758'	Number of communications lines
X'75A'	Level 5 system active queue control block
X'760'	System abend code
X'770'	Maximum byte count to host per host start I/O
X'772'	Pointer to the channel control block (CHB or COB)

*Word direct addressables (XDA) X'780' to X'7FF'*

X'7BC'	Lagging address register (LAR)
X'7C4'	Pointer to first free buffer
X'7D0'	Remembrance of the last buffer in the buffer pool
X'7D4'	Remembrance of the first buffer in the buffer pool
X'7D8'	Pointer to extended halfword direct addressables (HWE)
X'7E0'	Address of last byte of storage
X'7E8'	Pointer to the resource vector table (RVT)
X'7F0'	Pointer to the logical end of system free buffer pool

**Queue Control Blocks (QCB)** The queue concept is basic to an understanding of the data flow within the NCP. A queue is a group of either data blocks (PIU or BCU) or queue control blocks (QCBs) connected first through last by address pointers. First in, first out (FIFO) is the basic mode of queue manipulation; however, last in, first out (LIFO) mode is also used.

A queue control block (QCB) has two queue pointers. One points to the first element in the queue. The first element points to the second, the second points to the third, etc. The second queue pointer points to the last element on the queue. If both addresses are zero, there are no elements in the queue.

There are three types of queues: input, pseudo-input, and work. Each type of queue provides different program support.

*Input queues*

An input queue contains elements to be processed by the task identified by the QCB. Some of the fields are:

X'00'	Shifted address of first element queued
X'02'	Shifted address of last element queued
X'04'	Task state
X'05'	1010 1xxx indicates this is an input QCB
X'06'	Shifted address of next QCB on this queue

X'08'	Major control block displacement, provides the displacement from the beginning of the control block which contains this QCB to the first byte of the QCB.
X'09'	Task dispatching priority
X'08'	Full address of task entry point

Placing an element in a queue with ENQUE ACTV=YES puts a task in the pending state. If no task is active, the pending task becomes the active task.

#### *Pseudo-input Queue*

A pseudo-input queue contains no elements. It has the same format as the input queue, but the task is triggered by a stimulus rather than by the enqueueing of an element. An example of a pseudo-input queue is the panel queue. When the interrupt key is pressed on the 3704 or 3705 panel, a level 3 panel interrupt occurs. When level 3 determines that the interrupt was from the panel, level 3 branches to the level 4 supervisor routine which places the panel QCB on a dispatching queue.

The format of the pseudo-input queue is the same as the standard input queue. The only difference between an input queue and a pseudo-input queue is the means of dispatching the pseudo-input queue without data.

#### *Work queue*

A work queue does not have a task entry point. It is used as a queue to hold elements. The work queue is only eight bytes in length. The fields are as follows:

X'00'	Shifted address of first element queued
X'02'	Shifted address of last element queued
X'04'	Reserved
X'05'	1010 0xxx indicates that this queue is a work QCB
X'06'	Shifted address of next QCB on this queue

**Path Information Unit (PIU)** The element placed in a queue is either a queue control block (QCB), a block control unit (BCU) used in the BSC/SS code, or a path information unit (PIU). The placing of a PIU on a QCB normally triggers scheduling. The flow of the network control program is initiated by receiving a PIU from the channel or line and passing the address from one queue to the next for processing.

The PIU is received in one or more NCP buffers. The PIU is made up of a transmission header (TH), request/response header (RH), and request/response unit (RU). The PIU is that portion received from the host or from the lines.

In addition to the area specified on the BUILD macro BFRS operand, each NCP buffer requires a four-byte prefix for control purposes. The size of each buffer specified for the user is given in XDB at X'687'. The true buffer size is in XDB at X'690'. The buffer prefix field on each buffer is specified as follows:



- X'00' Buffer prefix chain field, shifted address of the next buffer in the chain, or zero if the last in a chain.
- X'02' Buffer prefix data offset field. This field provides the offset from the buffer prefix to the first byte of PIU text.
- X'03' Buffer prefix data count field. This field specifies the quantity of data from the offset that is valid in the buffer.

In the first buffer of a PIU is an event control block (ECB). The ten-byte ECB immediately follows the buffer prefix. The first buffer prefix offset of X'0A' provides the offset past the ECB to the first byte of FID1 PIU. The PIU actually starts in the fifteenth byte of the buffer, including prefix.

Including the offset from the beginning of the buffer, the ECB fields are as follows:

- X'04' Block status flags. Specifies if the PIU is in a queue.
- X'05' Event status flags. Specifies if the event is satisfied and if the task is to be dispatched when this PIU is first in the queue.
- X'06' ECB chain pointer. If multiple PIUs are queued on one QCB, this field is a shifted address of the next PIU on the queue chain. The queue manipulation macros use an offset of X'06' for chain addresses in QCBs and in the first buffer of a block.
- X'08' PIU text count or set time interval
- X'0A' Address of QCB for waiting task or hold area for blocks
- X'0C' UIB type field. This field identifies the destination resource type. The values are as follows:
  - 0000 0000 Communications controller
  - 100x xxxx Line
  - 010x xxxx Device
  - xxx1 xxxx Input
  - xxxx 1xxx Output
- X'0D' UIB status. If nonzero this field indicates various errors.

If the type is FID0 or FID1, the next byte after the buffer prefix and unit information block is the first byte of the PIU. The FID2 buffer prefix offset specifies an offset of X'0E' and these four bytes (X'0E' through X'11') are not used. The FID3 buffer prefix offset is eight bytes (X'0E' through X'15') and the eight bytes are not used. The FID0 format is used only for text transfer between the host system and the BSC/SS router. FID1 is identified by a bit pattern of xx00 xxxx at X'0E'.

*FID0*

The type 0 PIU is a field identification type 0 (FID0). This format is used for all text transfers between a host application and a BSC/SS terminal. The FID0 is received from the host and sent to the BSC/SS converter. The FID0 is converted to a block control unit (BCU) for the BSC/SS processor. Text

from a BSC/SS terminal is received in a BCU format buffer, sent to the BSC/SS converter, and converted to a FID0 before being sent to the host.

Including offsets from the beginning of the buffer, the format of the FID0 is as follows:

#### Transmission header (TH)

X'0E'	Transmission header. This field identifies the PIU as type 0 by xx00 xxxx in this byte.
X'0F'	Reserved
X'10'	Destination network address
X'12'	Origin network address
X'14'	Sequence number
X'16'	Text count of the RH plus RU (excludes TH)

#### Request/response header (RH)

X'18' - X'1A'	These fields are ignored in a FID0 PIU.
X'1B'	Request/response byte 3. This field is a pad byte to align the RU on a halfword boundary.

#### Request/response unit (RU)

X'1C'	RU0 byte 0. BTU command field. This field is covered in <i>IBM 3704 and 3705 Program Reference Handbook</i> (GY30-3012), Section 3: BTU Command and Modifiers.
X'1D'	RU0 byte 1. BTU command modifier
X'1E'	and X'1F' RU0 bytes 2 and 3. BTU flags
X'20'	RU0 byte 5. BTU system response. This field is covered in <i>IBM 3704 and 3705 Program Reference Handbook</i> (GY30-3012), Section 7: BTU Responses.
X'21'	RU0 byte 6. BTU extended response.

#### *FID1*

The type 1 PIU is a field identification type 1 (FID1). This format is used for all control commands, and all text transfers between the host and boundary network node (BNN). If the PIU is transferring to a remote NCP, the FID1 is sent unchanged to the remote.

Including offsets from the beginning of the buffer, the format of the FID1 is as follows:

Transmission header (TH)

- X'0E'      Transmission header. This field identifies the PIU as type 1 by xx01 xxxx in this byte. This byte also specifies whether this PIU is the first middle, last, or only PIU segment. PIU segmenting occurs when a PIU from the host has a length greater than that defined by the MAXDATA operand of a PU macro defines.
- X'0F'      Reserved
- X'10'      Destination network address
- X'12'      Origin network address
- X'14'      Sequence number
- X'16'      Text count of the RH plus RU (excludes TH)

Request/response header (RH)

- X'18'      Request/response byte 0. This byte specifies whether the PIU is a request or response, control or data, system control or function management, against flow or with flow, formatted or unformatted. PIU chaining by an application program is defined in this field, which specifies whether this is the first, middle, last, or only PIU element.
- X'19'      Request/response byte 1. This field specifies that an FME is requested/sent, an RRN is requested/sent, and an exception response is requested/sent. VPACING and PACING use the pace bit in this field.
- X'1A'      Request/response byte 2. This field specifies bracket protocol, EBCDIC or ASCII code, and change direction (HDX only).

Request/response unit (RU) - Network commands only.

- X'1B'      RU1 byte 0. This field is covered in *IBM 3704 and 3705 Program Reference Handbook (GY30-3012)*, Section 4: NCP Network Commands. The value of this field varies, based on the value of the RH byte 0.
- X'1C'      RU1 byte 1. Used for function management requests.
- X'1D'      RU1 byte 2. Request code for function management.
- X'1E'      Network address for SCP function management requests. A command to activate a link or contact a device is addressed to NCP physical services in the DAF; the device to be controlled by the command is addressed by this field.
- X'20'      The data beginning at this address varies, based on the type of command. For additional information, refer to *IBM*

*3704 and 3705 Communications Controllers, Network Control Program/VS Program Logic Manual (SY30-3013), Appendix A: Network Commands.*

Data PIU formats have user data starting at X'1B' immediately following the TH/RH.

### *FID2*

The type 2 PIU is field identification type 2 (FID2). This format is used for all control commands and all text transfers between the boundary network node (BNN) routine and support of type 2 physical units (3770, 3600, 3650, 3660, 3790). The FID1 is received from the host and converted to a FID2 before being sent to the type 2 physical unit. A FID2 from a type 2 physical unit is converted to a FID1 by the BNN code before being sent to the host.

The FID2 is created from a FID1 by converting the two-byte OAF and DAF fields to one-byte fields and deleting the two-byte transmission header (TH) count field. This conversion provides a total of four bytes deleted from the FID1 requirements. Shifting the fields to the right places the following fields in the original FID1 buffer:

#### Transmission Header (TH)

X'0E'	Reserved four-byte area
X'12'	Transmission header. xx10 xxxx in this byte identifies the PIU as type 2.
X'13'	Reserved
X'14'	Destination
X'15'	Origin
X'16'	Sequence number

Request/response header (RH). Same as FID1

Request/response unit (RU). Same as FID1

### *FID3*

The type 3 PIU is a field identification type 3 (FID3). This format is used for some control commands and all text transfers between boundary network node (BNN) code for support of type 1 physical units (3767, SDLC 3270). The FID1 is received from the host and converted to a FID2 with the normal FID2 processing. The FID2 is converted to a FID3 before being sent to the type 1 physical unit. The FID3 commands directed to a 3270 are processed by the NCP and are not sent to the SDLC 3270.

The FID3 is created from the FID2 by converting the six-byte transmission header (TH) of the FID2 to a two-byte TH of the FID3. The FID2 destination of one byte is converted to the low-order six bits of the last byte of the TH. The two leftmost bits specify the following:

Bit 0 - 1=to/from application, 0=to/from SSCP

Bit 1 - 1=to/from logical unit, 0=to/from physical unit

The first byte of the FID3 TH identifies the type of PIU. Deleting the four bytes of the TH from the FID2 makes four more alignment bytes available. Shifting the fields to the right provides the following fields in the original FID1 buffer:

Transmission header (TH)

- X'0E'        Reserved eight-byte area
- X'16'        Transmission header. This field identifies the PIU as a type 3 by xx11 xxxx in this byte.
- X'17'        Application or SSCP indicator and local address

Request/response header (RH). Same as FID1

Request/response unit (RU). Same as FID1

### Task States

At any given point in time, a task can be in any one of four logical states. The four states, under program control, are: active, pending, ready, or disconnected. Initially all tasks are in the 'ready' state. The state is specified in the QCB at an offset of X'04' for all conditions. A 'ready' task is available for execution, but there is no element in its queue or no stimulus to initiate it; therefore it is not in a dispatching queue.

When an element is placed in a queue by an ENQUE ACTV=YES or when a TRIGGER macro is executed, the task is changed from 'ready' to 'pending and disconnected', and is placed on the one of the dispatching queues. The 'pending' status makes it available for execution. The 'disconnect' status identifies the QCB as having been triggered; therefore, it will not be triggered again until the 'pending' status completes (a task should not be placed in the dispatching queue when it is already in the dispatching queue). Subsequent elements placed on a triggered QCB can specify an automatic trigger when the PIU is first on the queue, providing that the UIB field at an offset of X'05' has a value of x1xx xxxx. When the level 4 supervisor looks for a task to make 'active', it takes the first pending QCB off the highest priority dispatching queue and schedules the task routine specified in the QCB field.

Only one task can be 'active'. The active task may issue SVC requests to level 4 for services, but remains the active level 5 task until it completes. If the active task is waiting for supervisor services (SVC), the second bit in byte 4 of the QCB is a 1 (task in wait state). A task completes by issuing a SYSX-IT macro. When the task ends, the 'active' state must be ended, and the task changed from 'disconnect' to 'ready' by a QPOST macro. If the first element on the QCB specifies the task is to be dispatched (offset X'05' ECB status byte of the queued PIU), the QCB is triggered to the end of the dispatching queue and made 'pending'.

When a task is active, the byte direct addressable (XDB) at X'0685' has a value of x1xx xxxx. Figure 3.1 illustrates task state migration. In figure 3.1, all tasks going to 'pending' or 'active' also are 'disconnected'.

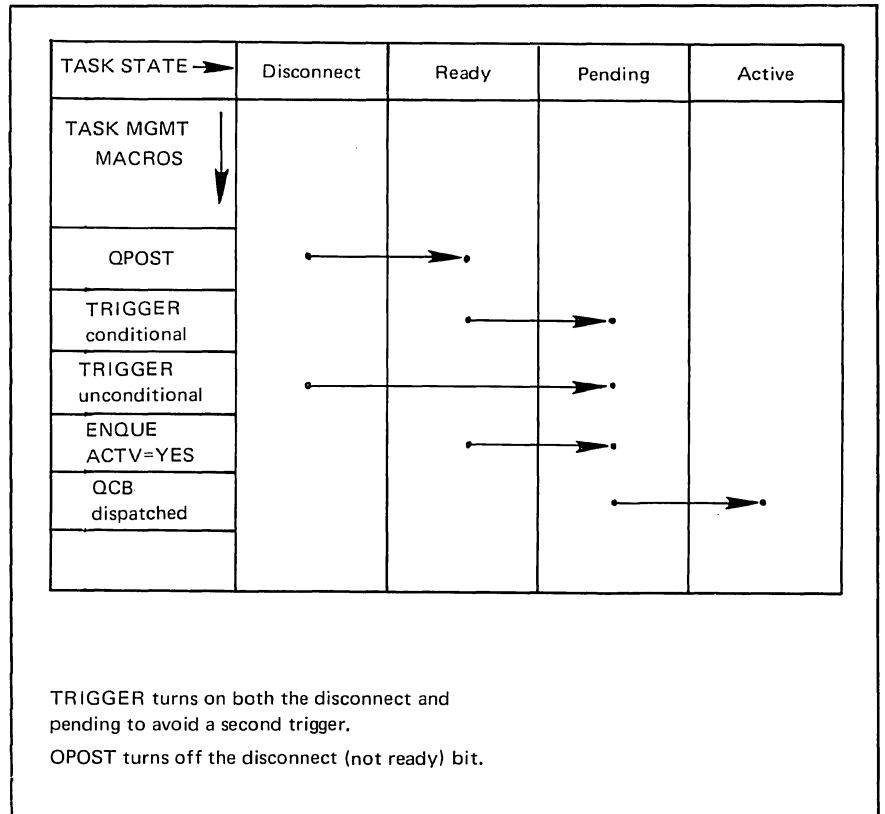


Figure 3.1. Task States

The following are the bit settings of the QCB in byte four, which indicates the status:

- 0xx0 xxxx Ready and not disconnected
- 1xx1 xxxx Pending and disconnected
- 0xx1 xxxx Active and disconnected
- 1xx0 xxxx Not valid

**Task Dispatching Priorities** Tasks in the network control program have one of four task-scheduling priorities: appendage, immediate, productive, and nonproductive. All tasks having the same priority are queued together.

Appendage tasks have the highest priority in the system. When the current active task relinquishes control, appendage tasks are dispatched from the appendage queue on a first-in, first-out (FIFO) basis. Appendage tasks are generally initiated by character service at the end of a line input or output operation. However, they can also be initiated by the supervisor or by level 5 tasks.

Immediate tasks have the second highest priority. Once processing for a line has started, all tasks necessary to initiate the input or output on the line are given the immediate priority.

Productive tasks have the third highest priority. A task is classified as productive if the end result of its execution is the initiation of output on either the channel or the communication line.

Nonproductive tasks have the lowest priority in the system. A task is classified as nonproductive if it is not capable of starting input or output operations. Nonproductive tasks are not dispatched when the system is in slow-down mode.

There are definite reasons for having task scheduling priorities:

- (1) appendage tasks are used to handle an exceptional condition as soon as possible.
- (2) Immediate priority improves performance. Once a task associated with a line in the idle state receives control, the performance is better if all the tasks necessary to initiate the transfer on this line are dispatched in succession before dispatching tasks associated with any other lines. The immediate priority accommodates such tasks.
- (3) Productive tasks have a high potential for freeing buffers and a low potential for allocating buffers.
- (4) Nonproductive tasks have a low potential for freeing buffers and a high priority for allocating buffers. Hence, productive tasks should be executed before nonproductive tasks.

The priority of a task can be changed dynamically by the CHAP macro.

The task dispatching queues are in the halfword direct addressables (XDH) at the addresses given below. The left address points to the first QCB queued and the right address points to the last QCB queued.

Appendage queue	X'74E'	X'74C'
Immediate queue	X'746'	X'744'
Productive queue	X'74A'	X'748'
Nonproductive queue	X'750'	X'752'

The QCB identifies which task dispatching queue is to be used. At QCB plus an offset of 9, the indicator to the TRIGGER macro is specified as follows:

10xx xxxx	Productive
010x xxxx	Immediate
001x xxxx	Appendage
000x xxxx	Nonproductive

### Dispatching Tasks

When level 4 is entered by PCI or by SVC, the supervisor at CXABTST checks for PCI or SVC. An SVC goes to CXASUPV to decode the macro using the SVC decode table. A PCI uses the three branch-table entries for processing. If levels 4 and 5 are disabled for buffer allocation, the first entry is primed with CXALEAS, the buffer allocation routine. Normally, the first entry contains the address of the second entry. If the system is in slowdown, the address of the routine to generate the slowdown entry message is in the second entry (CXAEXSS). Normally, the second entry contains the address of the the third entry. The third entry contains the address of the task dispatcher (CXADISP). Figure 3.2 illustrates the supervisor processing.

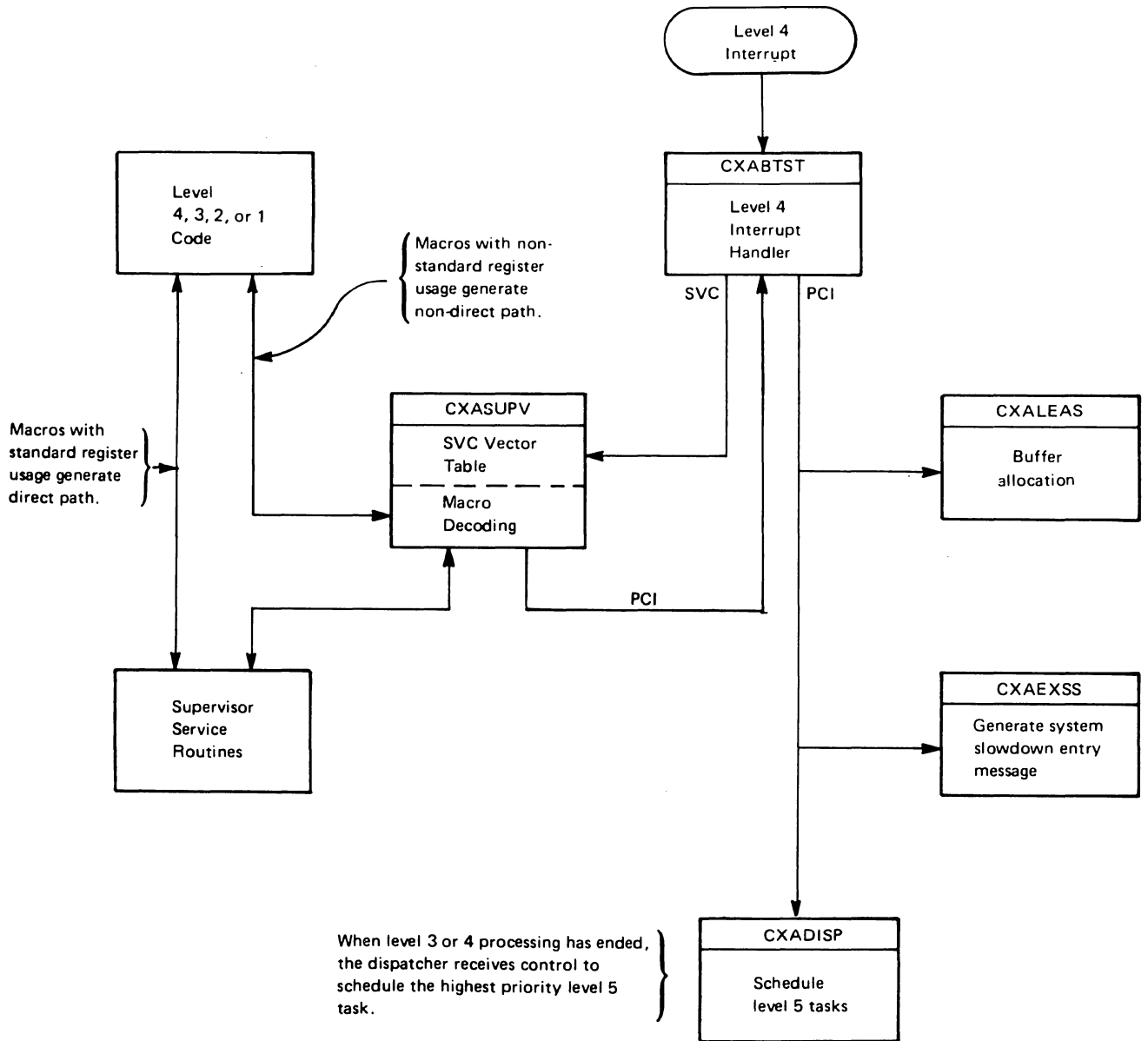


Figure 3.2. Dispatcher Entry Points

The CXADISP task dispatcher checks whether level 5 is enabled by testing the byte direct addressable (X'685') to see if dispatcher service is required. If service is not required the supervisor checks for an active task in byte X'685'. If this bit is on, an EXIT from level 4 returns control to the current active level 5 task. If there is no active task, the supervisor searches the dispatching queues.

The queues are scanned in a sequence of appendage, immediate, and productive. The first entry found is dequeued, the QCB address is placed in the



level 5 register 2, the task entry point is placed in level 5 register 0, and the level 4 supervisor executes an EXIT to allow level 5 to begin execution.

If no queue entry is found through the productive queue, the supervisor checks for slowdown. If the slowdown is indicated from an earlier LEASE macro condition, level 5 is disabled (OUT X'7E'). The supervisor executes an EXIT. If the system is not in slowdown, the supervisor checks the nonproductive queue and dispatches an entry if one is found. If no entry is found, level 5 is disabled and an EXIT at level 4 places the controller in the wait state.

Figure 3.3 illustrates the dispatching sequence.

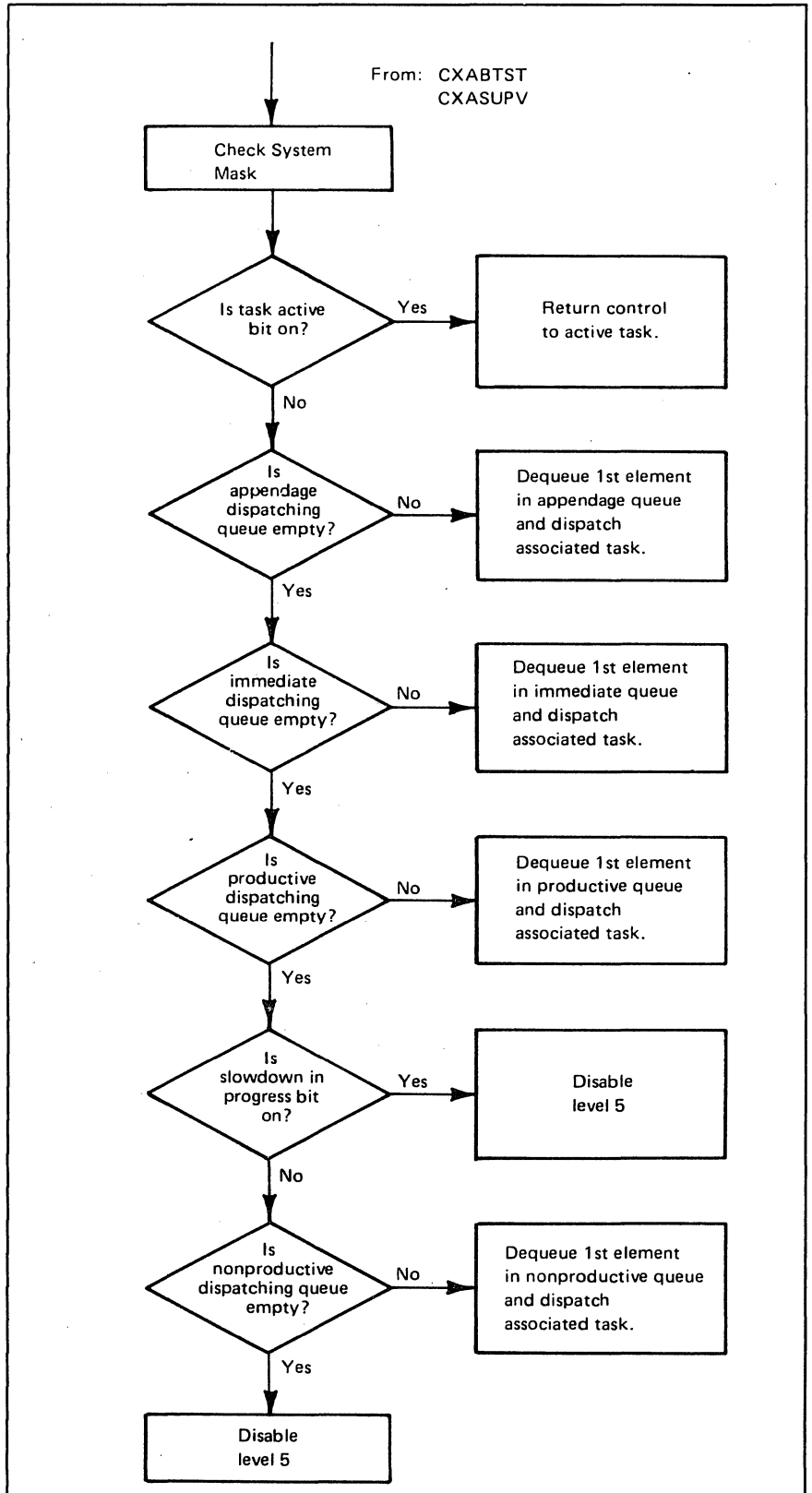


Figure 3.3. Dispatcher Execution Sequence

### Supervisor SVC Services

In addition to the task management routines, the supervisor provides queue management, buffer management, and supervisory services. All of these facilities are provided by macros. Macros at level 5 provide an SVC interrupt by an operand of SUPV=NO. Levels 1, 3, and 4 branch directly to the appropriate routine by using a macro coded with an operand of SUPV=YES. The SVC is an EXIT instruction in level 5 with a 16-bit EXIT qualifier, seven-bit SVC identifier, and nine-bit SVC qualifier.

All of these services are covered in the *3704/3705 Assembler Language and Macro Instructions Student Text* (SR20-4512).

### Supervisor Summary

The supervisor provides service facilities to level 1 and 3 routines by direct branch. The supervisor provides level 5 services facilities by SVC interrupts to level 4. Entry to level 4 by PCI normally causes the supervisor to search the dispatching queues for queued work to be dispatched in level 5.

If a partitioned emulation program (PEP) is defined by the BUILD macro operand of TYPGEN=PEP or TYPGEN=PEP-LR, a concurrent emulation and NCP program is generated. The NCP performance may be degraded by heavy emulation usage. All emulator code executes at levels 1, 2, and 3. Therefore, the emulation code has priority over the NCP dispatcher and level 5 dispatched routines.

When register 0 (instruction address register) addresses an EXIT instruction (X'B840'), the program level terminates. If the EXIT is in level 5, there is an additional 16-bit SVC qualifier.

**Network Control Program Supervisor Quiz** Using the dump provided in Appendix C, answer the following questions. This is a self-evaluation quiz, so please finish the quiz before referring to the answers in Appendix B.

1. Which program levels, if any, are active?
2. For each inactive level, if any, identify how you determined that the code was not active.

Criterion

If you could not answer both questions, you should review this section.

# Channel Adapter IOS

**Objective** Upon completion this topic, the student should be able to identify the types of channel control blocks and program support for each type of channel adapter, and name the user specifications which affect performance at the channel.

**Channel Adapter Definition** To transfer data across the channel interface, we must give the NCP definitions of the channel adapter type and the host buffers.

The CHANTYP operand in the BUILD macro defines which type of channel adapter is installed in the 3704 or 3705. This operand also selects the appropriate control block and IOS module to be included in the generation. If CHANTYP=TYPE1 or CHANTYP=TYPE4, the generation selects the channel operation block (COB) and the COB IOS module. If CHANTYP=TYPE2 or CHANTYP=TYPE3, the generation selects the channel control block (CHB) and the CHB IOS module. If both type 1 or 4 and type 2 or 3 channel adapters are installed for a partitioned emulation program (PEP), the operand is coded with the high-performance channel adapter (type 2 or type 3) as the first operand and the low-performance channel adapter (type 1 or type 4) as the second operand. This channel combination allows a high-performance channel adapter for NCP mode with the emulation program code using the type 1 or type 4 channel adapter.

Note: The type 4 CA cycle-steal support is added in ACF/NCP, and is not available in NCP release 5.

The HOST macro provides the correct values to be placed in the selected control block for proper channel operation. The MAXBFRU and UNITSZ operands define for the NCP the input area that the host allocates on any channel read operation. The maximum amount of data in one PIU that the NCP may transfer to the host in a single channel transfer equals  $(\text{MAXBFRU} \times \text{UNITSZ}) - \text{BFRPAD}$ . This calculation uses all allocated host buffers to contain one PIU.

The maximum number of PIUs which may be sent as a single channel transfer depends upon the size of the PIUs. In the previous paragraph, the example illustrated how one PIU may use all buffers. If all PIUs sent to the host are small enough so that each PIU and the buffer pads fit in a single host buffer, as many PIUs may be sent in a single channel transfer as there are host buffers available (MAXBFRU quantity).

Normally the PIUs do not all fit in a single host buffer nor will all the host buffers be required for one PIU. A combination of PIU lengths occurs where some PIUs require one host buffer while others require multiple host buffers.

The INBFRS operand determines the number of buffers the NCP should LEASE for a host 'write' operation to the 3704 or 3705. When the number of INBFRS is totally depleted, the INBFRS quantity is LEASED to continue the 'read' from the host. Once NCP buffers are allocated for a host 'write' they are allocated until used by this or a future host 'write'. At the end of a host 'write' the unused INBFRS are not returned to the available buffer pool.

### Host Writes to the NCP

The host channel program must always start with a control command. A 'write' operation from the host must start with a 'write start zero' (WS0) or a 'write start one' (WS1). The first 'write' must be a WS0. After the first 'write', the 'write start' commands alternate between WS0 and WS1 with the successful completion of each write channel program. The 'write start' commands are X'31' for WS0 and X'51' for WS1.

When the channel adapter receives the control command, the CA generates a level 3 interrupt into IOS. When IOS receives the 'write start' (WS) control command, the command determines that the host wants to write to the 3704 or 3705. The WS control command is compared to the expected WS command in the channel adapter control block (COB or CHB at offset X'0F'). If the two commands are equal, the expected WS command is flipped and the enqueue count and skip count are reset to zero. Data is transmitted until a complete PIU is received or until an unexpected control command signals an error condition on the channel interface. When a PIU is completely received, the PIU is passed to 'path control out', and the enqueue count is incremented by 1. If an unexpected control command is received, the enqueue count is added to the skip count. As each PIU is received a second time, rather than pass the PIU to 'path control out' again, the skip count is decremented until the count is zero.

The enqueue count and skip count fields are reset to zero by IOS when IOS receives the next WS control command which is equal to the expected WS command in the channel control block.

The host can send multiple PIUs to the NCP with one host write. PIUs are separated logically by using a CCW with command chaining between PIUs.

### Host Reads from the NCP

The host 'read channel program' must start with a control command. The control command is either a 'read start zero' (RS0) or a 'read start one' (RS1). At the completion of the read channel program in the host, the RS0 command which must be sent first is changed to a RS1. The RS0 and RS1 commands alternate with the successful completion of each read channel program. The RS control commands are X'32' for RS0 and X'52' for RS1.

The host does not execute the read channel program without first receiving an attention interrupt from the 3704 or 3705 controller. The attention interrupt is the means by which IOS lets the host know that it has data to send across the channel.

Before the data is put on the channel intermediate queue, the data length is checked to ensure that the PIU fits in the host buffers. IOS sets up the channel adapter to present the attention interrupt to the host. The attention interrupt causes the host to execute its read channel program starting with an RS control command.

On receiving the RS control command, IOS compares the received RS command with the expected RS command in the channel control block at a displacement of X'0E'. If the RS command received is the expected command, IOS flips the expected RS command and purges any PIUs from the hold queue. IOS moves as much data as fits in the host buffers from the intermediate queue to the hold queue.

Before each PIU is sent to the host, a number of pad characters is sent to the host as a reserved area for host internal control. The count of pads is coded on the HOST macro BFRPAD operand. Following the pad, if the pad and PIU are less than or equal to the length of one host buffer, the IOS sends a complete PIU (UNITSZ value). IOS never lets the host CCW channel stop, but forces chaining to avoid a channel stop by the channel. If the end of a PIU forces chaining, the second PIU begins in the next host buffer, with leading pads sent before the PIU. If the original PIU had additional data beyond a single host buffer, the data continues into the subsequent host buffer.

When all PIUs in the hold queue have been sent, IOS presents ending status to the host. If more PIUs are available for the host, IOS adds an 'attention' to the status being sent back to the host. This 'attention' status indicates to the host that a new 'read' is needed for the 3704 or 3705 controller. The host responds with a new 'read channel program'.

A second method by which the channel IOS indicates to the host that it has PIUs for the host is to send a status modifier (SM) at the end of the 'write' portion of a write/read combination channel program. The SM tells the host to skip over a NOP that follows the 'write' CCWs and continue with the 'read' CCWs. These methods eliminate the need for excess asynchronous interrupts on the channel. At the end of the read CCWs IOS presents final status of channel end, device end, and unit exception. This facility is specified on the HOST operand of STATMOD=YES.

The following channel programs illustrate the host channel program for a 'read', 'write', and the 'write/read' sequence.

#### *Read Channel Program*

```
CCW 32 or 52,*,X'60',1
CCW 02,BUF1,X'60',L'BUF1
--
--      Read Commands
--
CCW 02,BUFn,X'60',L'BUFn
CCW 03,*,0,1      NO-OP
```

#### *Write/Write Break Channel Program*

```
CCW 31 or 51,*,C'60',1
CCW 01, BUF1,X'60',L'BUF1
--
--      Write and/or
--      Write break commands
--
CCW 09,BUFm,X'60',L'BUFm'
CCW 03,*,0,1      NO-OP
```

#### *Write/Write Break and Read Combination Channel Program*

```
CCW 31 or 51,*,X'60',1
CCW 01,BUF1,X'60',L'BUF1
--
--      Write and/or
--      Write break commands
--
CCW 09,BUFn,X'60',L'BUFn
```

```

CCW 03,* ,0,1          (NOTE 1)
CCW 32 or 52,* ,X'60'1
CCW 02,BUFn,X'60',L'BUF1
--
--      Read commands
--
CCW 02,BUFn,X'60',L'BUFn
CCW 03,* ,0,1          NO-OP

```

NOTE 1: This NO-OP is not essential for correct operation, although it may be desirable for compatibility when the status modifier option is selected. If the status modifier option is not selected, the 'write break CCW' may be command-chained to the 'read start CCW'. If status modifier is selected, the NO-OP should be included and should not be command-chained to the 'read start CCW'. If compatibility is desired, include the NO-OP in the channel program and turn the command chain flag on and off as needed.

### Type 1 and 4 Channel Adapter

The type 1 or 4 channel adapter support requires an interrupt at level 3 for each four bytes transferred. As the number of INBFRS is depleted, the level 3 code branches into the level 4 supervisor routine to obtain a new supply of buffers equal to the INBFRS number. Then the 'read' (host 'write') operation continues to the completion of the host 'write' or another allocation of buffers. Buffers allocated to the channel and not used by the current NCP 'read' are held for a later 'read' operation.

**Channel Operation Block (COB)** The control block for a type 1 and type 4 channel adapter is the channel operation block (COB). The address pointer to the COB is in the halfword direct addressables (XDH) at X'772'. The control block has a negative displacement to minus X'30'. Some of the key addresses are identified as follows:

- X'20' Channel intermediate QCB
- X'18' Channel hold QCB
- X'08' Constant of XXCXTCOB
- X'00' Channel condition flags
- X'0E' Next expected read start
- X'0F' Next expected write start
- X'10' to X'23' External register input areas
- X'28' Address of first inbound buffer
- X'30' Pointer to current buffer
- X'34' Current inbound data address
- X'38' Address of first buffer of completed inbound PIU
- X'3C' Address of last buffer of completed inbound PIU
- X'40' Count of PIUs passed to path control
- X'42' Number of PIUs to skip on a retry
- X'44' Maximum data count for current inbound buffer
- X'46' Generation buffer lease count (HOST INBFRS=value)

X'4C'	Address of last PIU given to CSCAOUT for the host
X'58'	Address of outbound PIU
X'5C'	Address of outbound buffer
X'60'	Address of outbound data
X'64'	Number of host CCWs (HOST MAXBFRU=value)
X'66'	Byte count of host CCWs (HOST UNITSZ=value)
X'76'	Attention delay interval (HOST DELAY=value)
X'7C'	Buffer pad size (HOST BFRPAD=value)

### Type 2 or Type 3 Channel Adapter

The type 2 or type 3 channel adapter uses cycle steal for data transfer operations. The facility requires IN or OUT control words (CW) which are similar to CCWs in the host.

**Host Writes** When the first 'write start zero' is received, IOS leases buffers, builds 'IN' control words (CWs) and sets up the channel adapter to accept data from the channel. The 'IN' control words are executed one at a time, causing the channel adapter to cycle steal the PIUs into the buffers. During the execution of the control words, no program intervention required.

The next level 3 interrupt into IOS is from one of three conditions; a channel stop, zero count override, or an unexpected 'write start' command.

The channel stop condition occurs when the channel adapter receives 'command out' to a 'service in' request. The channel stop condition signals the end of a PIU and causes a level 3 interrupt into IOS. IOS increments the enqueue count, passes the PIU to 'path control out', and sets up the channel adapter to continue receiving data.

A zero count override condition exists when all the control words (CWs) on the channel-in chain (CIC) have been executed and the host still has more data to transfer. At the completion of the last control word in the CIC, the channel adapter causes a level 3 interrupt into IOS. Since the data transfer has not completed for this PIU, IOS must rebuild the CWs in the CIC. IOS leases new buffers, chains them to the previous buffers and rebuilds the CWs. When the Cws are rebuilt, IOS sets up the channel adapter to continue transferring data, using the address of the first CW in the new CIC. This sequence occurs each time a zero count override is reached.

Receiving an unexpected control command is common to all adapter types and was covered earlier.

**Host Reads** When the 'read start' is received, it is compared against the expected 'read start' control command. If the 'read start' is as expected, IOS flips the expected RS command and purges any PIUs in the hold queue (the previous PIUs to the host). IOS builds the 'OUT' control words (CWs) necessary to send each PIU to the host. After building the 'OUT' control words for a PIU, including a buffer pad (HOST BFRPAD=value), IOS moves the PIU to the channel hold queue. When all of the data (or enough of the data to fill the host buffers) has been moved to the hold queue, the CWs on the channel-out chain (COC) are executed and the PIUs are sent to the host.



When all of the CWs on the channel-out chain (COC) have been executed, the channel adapter generates a level 3 interrupt into IOS. IOS presents ending status to the channel adapter for the host. If more PIUs are available for the host, IOS adds 'attention' to the status for the host. This 'attention' status indicates that a new start I/O is needed from the host.

**Channel Control Block (CHB)** The control block for a type 2 or type 3 channel adapter is the channel control block (CHB). The address pointer to the CHB is in the halfword direct addressables (XDH) at X'772'. The control block has a negative displacement to minus X'30'. Some of the key addresses are identified as follows:

-X'30'	PIU exception QCB
-X'20'	Channel intermediate pointers
-X'18'	Channel hold pointers
-X'08'	Constant of XXCXTCHB
X'00'	Channel condition flags
X'02'	Channel adapter select bit (first or second CA)
X'0E'	Next expected 'read start'
X'0F'	Next expected 'write start'
X'10'	to X'25' External register input area
X'34'	Address of first buffer of current PIU
X'38'	Pointer to previous inbound buffer
X'3C'	Address of first buffer on inbound CW chain
X'40'	Address of last buffer on inbound CW chain
X'44'	Address of complete PIU to pass to path control out
X'48'	Address of last buffer of PIU to be enqueued
X'4C'	Address of inbound CW area
X'4E'	Address of first CW on inbound chain
X'50'	Address of last CW on inbound chain
X'52'	Address of last executed CW
X'54'	Data count for last inbound buffer
X'56'	Original data count in last executed CW
X'58'	Inbound buffer lease count (HOST INBFRS=value)
X'59'	Current buffer lease count
X'5A'	Number of PIUs enqueued (enqueue count)
X'5C'	Number of PIUs to skip for retry (retry count)
X'60'	Address of last outbound block
X'68'	Address of first CW on outbound chain
X'6A'	Address of last CW on outbound chain

X'6C'	Host read buffer size (HOST UNITSZ=value)
X'70'	Host read CCW count (HOST MAXBFRU=count)
X'74'	Buffer pad size (HOST BFRPAD=value)
X'76'	Attention delay interval (HOST DELAY=value)
X'78'	Channel timeout (HOST TIMEOUT=value)

**Channel Words (CW)** Channel words are coded in a four field format. The four fields in sequence specify:

1. CW type (IN, OUT, or OUT STOP)
2. Chaining or no chaining.
3. Quantity of data to be read or written
4. Address of data area

When IN CWs are built, all of the CWs are coded IN with the chaining bit 'on' in all CWs except the last. When the last CW completes without chaining, (1) a level 3 interrupt occurs to lease more buffers, (2) the last CW is chained to the new buffer chain, and (3) the CWs are rebuilt to point to the new buffers. The first CW points X'0E' offset into the buffer to reserve space for the event control block (ECB) and buffer prefix. All subsequent buffers are generated with an offset address of X'04' into the buffer to bypass the buffer prefix. The length field specifies the true buffer size less X'04'.

When a PIU is received, the host forces 'channel end', 'device end', 'without unit exception' by using a CCW with command chaining. This channel status stops channel transfer and generates a level 3 interrupt. The PIU is passed to 'path control out'. The next available CW is modified for an offset address of X'0E' into the buffer, the count is modified to the remaining buffer length, and the channel is restarted. All of the delay is transparent to the host.

OUT channel command words are used with chaining until the last CW of a PIU is transmitted or until a host CCW is filled. The next data byte sent to the last-plus-1 position of a host CCW causes the channel to halt transfer on a zero count override to access the next CCW. This channel halt is avoided by forcing the next CCW access without letting the zero count be recognized. If the end of a PIU is reached, the next PIU must start, with pads, in a new host buffer. Both of these conditions use the OUT STOP command to send channel end, device end, without unit exception. Chaining is used for both OUT and OUT STOP until the last OUT STOP CW.

The first CW of each PIU sends pad characters. The second CW addresses the PIU at an offset of X'0E', following the event control block (ECB).

Figure 4.1 illustrates the NCP-to-host transfer using OUT and OUT STOP CWs. The NCP buffer size is 48 bytes (without the buffer prefix) and the host buffer size is 124 bytes. The first PIU is 154 bytes, the second PIU 63 bytes. In each PIU the pad is sent to the host for BFRPAD length (15 bytes in the example). The first NCP buffer of each PIU has a 10-byte ECB which is not sent to the host; only 38 bytes are transmitted from a first NCP buffer.

Channel Adapter IOS

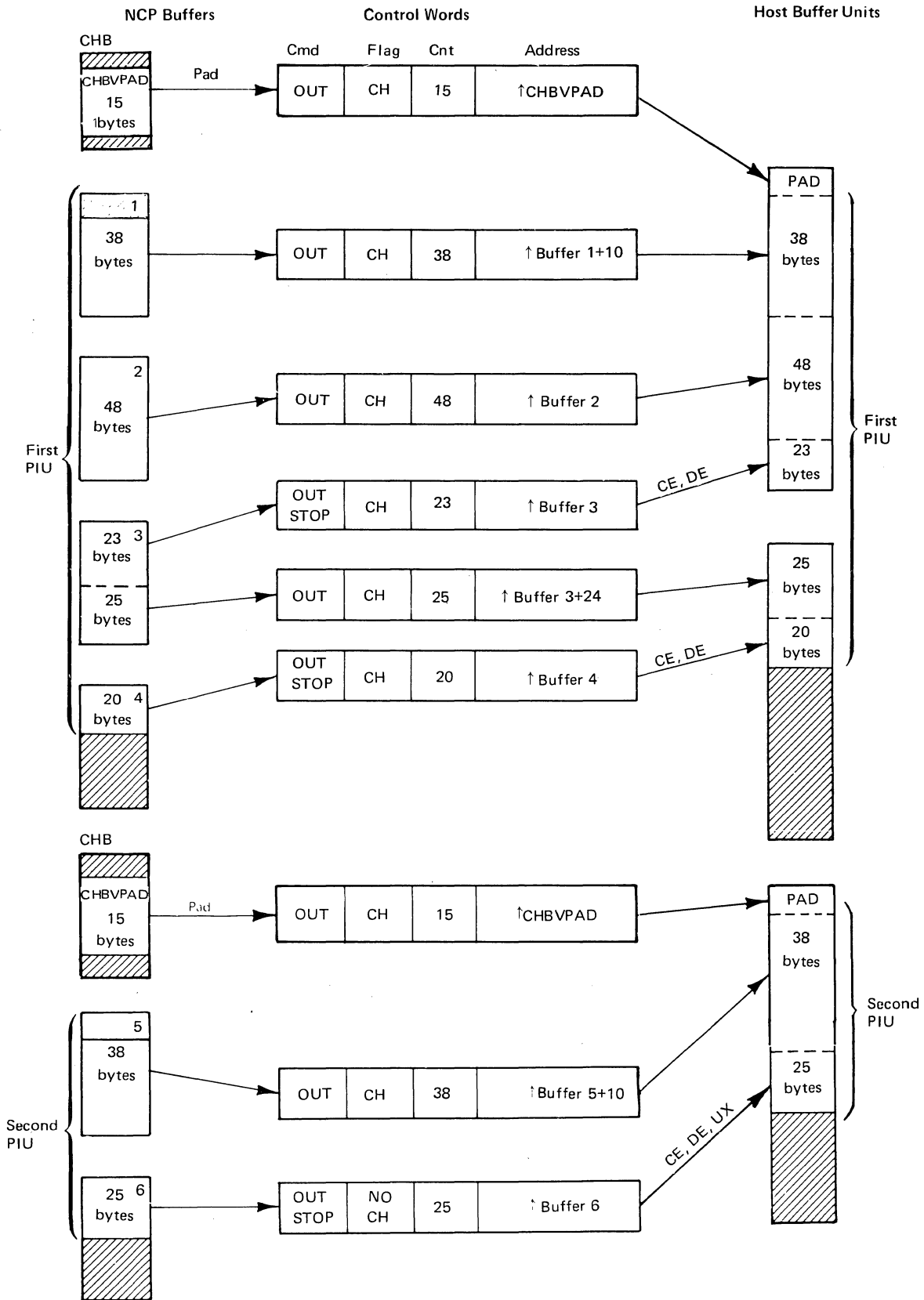


Figure 4.1. Data Transfer from NCP to Host Buffer Units

## Channel Adapter IOS Performance

### Type 1 or 4 Versus Type 2 or 3 Channel Adapter

There are many factors which affect channel performance, one factor being the type of channel adapter. The type 1 or type 4 channel adapter requires many additional communications controller cycles to execute the level 3 code after every four bytes of transfer. More commands are also processed in the channel, tying up the channel for greater periods of time than is the case with the type 2 or 3 channel adapter. If the controller is not heavily loaded, machine cycles are available for servicing the type 1 or 4 adapter, rather than having the controller in the wait state.

**Host and NCP Buffer Sizes** Host and NCP buffer sizes should not need be identical. For one thing, the NCP buffer has a 10-byte event control block (ECB) for control fields in the first buffer of a PIU, and this size does not match the host prefix requirements. OS VTAM requires a HOST macro BFRPAD of 28; DOS VTAM requires 15. The size of buffers should be related to the average size of the PIU in order to avoid unused space in large buffers for small PIUs and avoid excessive buffer chaining and unchaining of small buffers for large PIUs. Remember that CICS, IMS, TCAM, control commands, and probably many user applications have a response of

13 bytes, and even control commands are short. The minimum NCP buffer size of 44 (BUILD BFRS operand) should be sufficient for responses. The maximum size of 248 for NCP buffers or the default of 60 may be excessive if data requests are short. The host size should be determined as the same size as NCP, plus the difference between the NCP control requirement (ECB ten bytes) and the host buffer pad requirements as specified on the BFRPAD operand.

In addition to the size of PIUs as a factor in NCP buffer size, there is a critical factor of SDLC terminal buffer size specification. An operand of MAXDATA on the PU macro specifies the maximum PIU which can be sent to the device. There is an absolute requirement that the NCP buffer size must be at least TH less than the smallest MAXDATA value. This NCP buffer size should never be a problem unless the MAXDATA is coded in error. Type 1 physical units have a 261-byte physical buffer (five-byte FID3 TH/RH plus 256 bytes of text), and type 2 physical units have a 265-byte physical buffer for receiving PIUs (nine-byte FID2 TH/RH plus 256 bytes of text). The largest NCP buffer size is 248, six bytes less than the requirement for MAXDATA.

If PIUs are larger than the MAXDATA operand, PIUs are segmented. A segment is a TH-plus-1 or a multiple of full NCP buffers. Segmenting affects the NCP buffer size. Segmenting is covered later under the topic boundary network node.

VS1 VTAM requires the host buffer size to be an odd multiple of words. The HOST macro UNITSZ operand should not be divisible by 8 for VS1 VTAM.

**Host Buffer Allocation** The NCP defines the number of host buffers on the HOST macro operand of MAXBFRU. The number multiplied by the host buffer size minus buffer pads (MAXBFRU x UNITSZ - BFRPAD) restricts the size of the largest PIU which can be sent to the host. There is no restric-

tion on the size of a PIU from the host to NCP. If channel IOS determines that a PIU exceeds the length of the host capacity, IOS sets an error response in the PIU and returns the PIU to the source.

Another consideration is the number of PIUs sent to the host by a single host read. If DELAY is coded as nonzero on the HOST macro, a timer is set when the first PIU is enqueued to the intermediate queue. 'Attention' is not sent until the timer expires, allowing additional PIUs to be enqueued, or until the number of PIUs fills the number of host buffers, whichever condition occurs first. If the host completes a write to the NCP and STATMOD=YES is coded on the HOST macro, any PIUs in the intermediate queue are sent before the timer event.

The delay technique has two benefits: (1) improvement in the host performance by reducing the number of 'attentions' and host buffer allocations; (2) improvement in NCP performance by reducing the number of channel initializations and termination processing of the intermediate queue to hold queue. When traffic is light, the PIU is delayed at the channel. When traffic is heavy, the delay is not used because the amount of data queued fills the host buffer allocation.

**NCP Buffer Allocation** The INBFRS operand defines the number of buffers to be allocated for host-to-NCP transfers. When the last allocated buffer is filled, the NCP obtains more buffers as required. If a large number of NCP buffers is allocated to the channel and not used promptly, it deprives other users of free buffers and may result in slowdown. If few NCP buffers are allocated, the NCP must lease buffers more frequently, taking required controller cycles.

**Delay** See Host Buffer Allocation.

**Status Modifier** The STATMOD=YES operand of the HOST macro allows the NCP to send PIUs to the host at the completion of a host 'write'. When a host 'write' completes, rather than send the 'attention' separately or as a part of the write status and waiting for a host 'read', the PIUs can be sent as a continuation of the host 'write CCW' chain. If the NCP has traffic for the host, the status modifier causes the host 'write CCWs' to chain to 'read CCWs'.

**Channel Timeout** If the HOST macro operand is coded TIMEOUT=NONE, the NCP sends 'attention' and waits indefinitely for the host to reply. If auto network shutdown support is included (BUILD ANS=YES), the operator can initiate auto network shutdown from the panel of the communications controller.

If the host does not reply to the 'attention', a timeout value provides automatic entry to auto network shutdown. All current pending line operations complete, resources are deactivated, and a 'network shutdown complete' message is placed on the channel queue.

**Channel Adapter  
Summary**

There are four types of channel adapters. Types 1 and 4 require heavy program support, but are required for emulation programming. Types 1 and 4 have common code. Types 2 and 3 also have common code. Type 2 is used for single processors; type 3 allows a dual interface to tightly coupled multi-processors. Types 2 and 3 are high-performance, cycle-steal channel adapters. User definition of host and NCP buffer parameters and other channel-related operands on the HOST macro can have significant effect on performance.

**Channel Adapter IOS  
Quiz**

Use appendix C to answer the following questions. Do not refer to the answers in Appendix B until you have completed all the questions.

1. What is the address of the channel control block?
2. Is the channel control block a COB or CHB?
3. Are any buffers on the channel queues?
4. How many buffers (INBFRS) are allocated for data from the host?
5. How many buffers (MAXBFRU) are allocated for data going to the host?
6. What is the pad size (BFRPAD) on PIUs going to the host?
7. What is the size (UNITSZ) of a host buffer?

**Criterion**

If you missed more than one question, you should review this material.



# Path Control

**Objective** Upon completion of this topic, the student should be able to identify the control blocks used by 'path control out', 'path control out delayed', 'path control in immediate', 'path control in delayed', and describe the flow of data in the modules.

**Path Control Out** 'Path control out' directs the flow of path information units (PIUs) from the channel adapter IOS to the proper destination. 'Path control out' uses the destination address field (DAF) from the PIU to access entries in the subarea index table (SIT), subarea vector table (SVT), and the resource vector table (RVT). The 'path control out' routine locates the appropriate path for the PIU and places the PIU on a queue control block (QCB) for processing by NCP physical services, boundary network node (CUB or LUB), link scheduler (SCB), or the BSC/SS processor. The 'path control out' module operates in program level 3 via a branch from the channel IOS. When a complete PIU is received from the host, the channel code branches to 'path control out'. 'Path control out' determines where the PIU is to be queued.

When the PIU destination is a type 4 physical unit, 'path control out' enqueues the PIU directly on the station control block (SCB) link outbound queue (LOB). From the link outbound queue the PIU is transmitted to the remote by the link scheduler.

When the PIU destination is a type 1 or type 2 physical unit, the PIU is enqueued on the common unit physical block (CUB) or logical unit block (LUB), depending upon the PIU destination.

A PIU that is destined for NCP physical services is placed on the NCP physical services block (PSB) process queue.

If the PIU is destined for a BSC or SS device, the PIU is passed to the BSC/SS router, which converts the PIU to a BTU and enqueues the BTU on a device block (DVB) or a nondevice input queue.

'Path control out' routes PIUs to their proper destination. To accomplish this routing, 'path control out' uses several tables (created during NCP generation) in conjunction with the DAF portion of the PIU. These tables are the subarea index table (SIT), subarea vector table (SVT), and resource vector table (RVT).

**Subarea Index Table (SIT)** The subarea index table (SIT) consists of one-byte entries that correspond to the network subarea addresses. The content of each one-byte entry is a value used to index into the SVT. The NCP generation builds the SIT according to the MAXSUBA and SUBAREA operands of the BUILD macro and the SUBAREA operand of the type 4 PU macro.

The MAXSUBA operand of the BUILD macro determines the size of the SIT. If MAXSUBA is coded 15, there are MAXSUBA entries-plus-1, or 16 entries. The first entry is always one byte of zero. The remaining entries are filled according to the definitions of the network control program.



If the host is defined as subarea 1, the SIT table offset of 1 provides the one-byte offset into the SVT, which contains the address of the channel control block (COB or CHB). The second subarea index table entry always contains a X'02' to offset to the third entry in the SVT. All other entries are dependent upon the SUBAREA operands on the BUILD and type 4 PU macros.

If the BUILD macro SUBAREA=2 and two type 4 PU macros are coded SUBAREA=4 and SUBAREA=6, the third, the fifth, and seventh SIT entries provide offsets to the SVT table. The BUILD entry always contains X'01' to point to the second SVT entry. Each type 4 PU macro generates consecutive entries in the SVT; therefore, the SIT values for type 4 PU macros are third, fourth, etc., in the relative subarea position. Figure 5.1 illustrates the SIT.

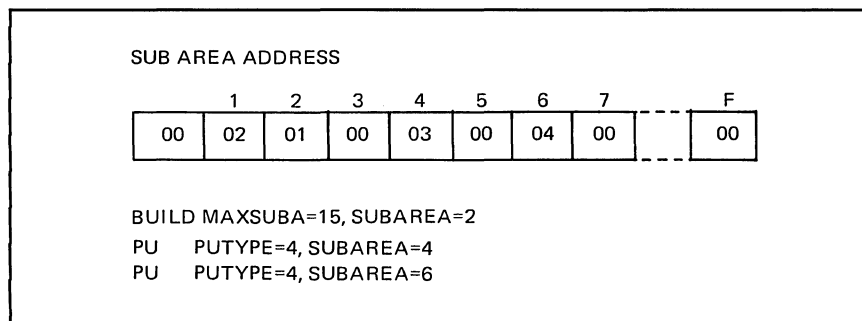


Figure 5.1. Subarea Index Table

**Subarea Vector Table (SVT)** The subarea vector table is made up of four-byte entries. Each entry consists of a type field, which describes the type of subarea this entry represents, and the address of the table or control block representing that subarea. The NCP generation builds the SVT according to the TYPGEN operand of the BUILD macro and the number of type 4 PU macros included in the generation.

The type field identifies the entry as the address of the resource vector table (RVT), channel control block (COB-30 or CHB-30), or a type 4 PU (SCB) of a remote link. The first entry is a value of zero, and all SIT entries with undefined SUBAREAs index to this entry. The second entry is always the address of the resource vector table (RVT). In a channel-attached controller, the third entry is the address of the channel control block (COB or CHB) minus 30. If TYPGEN=NCP or PEP, the next entry is a delimiter entry with X'FF' in the type field. If TYPGEN=NCP-LR or PEP-LR, each type 4 PU (SCB) generates an entry between the channel entry and the delimiter.

Figure 5.2 illustrates the SVT.

SVT

TYPE	0000
	RVT-4
	CHB-30 or COB-30
	SCB
	SCB
FF	

BUILD TYPGEN=NCP-LR or PEP-LR  
 PU PUTYPE=4,  
 PU PUTYPE=4,

Figure 5.2. Subarea Vector Table

**Resource Vector Table (RVT)** The resource vector table (RVT) is made up of four-byte entries. Each entry consists of a type field and the address of the control block represented by this entry. The NCP generation builds the RVT, with an entry for BSC/SS definitions of LINE, CLUSTER, TERMINAL, and COMP macros, and SDLC definitions of LINE, PU, and LU macros. If switched SDLC links are defined, the last entries are addresses of logical units in the logical unit pool. These addresses are generated by the LUPPOOL macro.

NET. ADD.	BSC SS ADD.
TYPE	PSB
	LCB
	DVB
	DVB
FF	
	LKB
	CUB
	LUB
	LUB
	LUB
	LKB
	SCB
FF	

Figure 5.3. Resource Vector Table

The RVT is divided into two sections. The first section is for BSC/SS entries, and the second is for SDLC entries. Both sections have a delimiter entry with a type field of X'FF'. At RVT-4 is a two-byte field which contains the highest network element count in the table. The RVT-2 is a two-byte field which contains the highest BSC/SS network element count.

The first entry in the RVT has a type field of X'00' and the address of physical services control block (PSB). If there are BSC/SS devices, they begin in the second position and are delimited by a X'FF'. SDLC devices follow the BSC/SS delimiter entry, or if no BSC/SS devices are included, the SDLC devices follow the PSB entry. The format of the RVT is illustrated on Figure 5.3.

The RVT is located by an address pointer in the word direct addressables (XDA) at X'07E8' which points at the RVT-2. The SVT immediately precedes the RVT and the first entry contains an address of zero. The SIT immediately precedes the SVT. The length of the SIT is determined by the subarea mask at X'693' in the byte direct addressables (XDB).

**Path Control Out Flow** 'Path control out' receives control from the channel adapter IOS. The DAF of the FID0 or FID1 is used by path control to route the PIU properly. The first byte of the DAF contains the subarea address. The byte is shifted as required to delete any leftmost bytes of element address, leaving the true subarea value. This subarea address is used to vector into the SIT to the entry for that subarea. The one-byte SIT entry contains an index value to be used with the SVT. This value is used by path control to index into the SVT to the corresponding entry. The SVT entry contains flags describing the entry and a pointer to the control block representing that subarea.

The possible subarea entries in the SVT and their associated pointers are as follows:

- Invalid subarea (entry of zeros)
- Local NCP subarea (pointer to the RVT)
- Host subarea (pointer to the CHB or COB)
- Remote subarea (pointer to SCB)

The action taken by 'path control out' differs for the various subareas. If the PIU is destined for a type 4 physical unit, the PIU is enqueued on the station control block (SCB) link outbound queue.

If the PIU is for physical services, the element address is zero and the PIU is routed to physical services.

PIUs for type 1 or type 2 physical units are processed by a connection point manager out (CPM-OUT). The CPM-OUT is invoked by enqueueing the PIU on an appropriate CUB or LUB queue. The CPM-OUT branches to 'path control out delayed' for conversion of PIUs from FID1 to FID2 or FID3, segmenting as required, and enqueueing to a link outbound (LOB) queue.

If the RVT entry is in the BSC/SS section of the RVT, the PIU is routed to the BSC/SS system router via a branch instruction.

**Path Control In** 'Path control in' is divided into two parts: 'immediate' and 'delayed'. When a PIU is received on a link, 'path control in immediate' is invoked by a branch from the link scheduler. 'Path control in immediate' checks for a PIU source of a remote controller (SCB). If from a remote, the PIU is immediately queued on the channel intermediate queue for the host. If from a type 1 or type 2 physical unit, the PIU is queued on the CUB inbound queue, and 'path control in immediate' exits from level 3.

'Path control in delayed' dequeues the PIU from the CUB inbound queue and determine which connection point manager in (CPM-IN) should process this PIU. 'Path control in delayed' (at level 5) branches to the appropriate CPM-IN.

**Path Control Summary** All PIUs from the host are passed from level 3 channel adapter IOS to level 3 'path control out'. The PIU is validated and if the destination address subarea field is for a remote controller (SVT entry), the PIU is immediately placed on the SCB link outbound queue of the remote controller. All PIUs destined for this controller or for devices connected to this controller are checked against the resource vector table to locate the appropriate queue. After the boundary network node code has processed the PIU, it is passed to 'path control out delayed' for FID conversion, segmenting, and enqueueing to a link outbound queue.

All PIUs from the link scheduler are processed by 'path control in immediate'. The PIU is validated. If the source is a remote controller, the PIU is XPORT-ed to the channel intermediate queue. If the source is a type 1 or type 2 physical unit, the PIU is enqueueing on the CUB link inbound queue, triggering path control in delayed. 'Path control in delayed' determines the session of the PIU and branches to the appropriate boundary network node connection point manager in (CPM=IN).

Additional information on 'path control in' is given later under physical unit-to-host PIU processing.

**Path Control Quiz**

Do not refer to the solution in Appendix B until you have finished the quiz. Appendix C provides the storage listing for use in answering the following questions.

1. What is the address of the subarea index table?
2. What is the address of the subarea vector table?
3. What is the address of the resource vector table?
4. How many bits of the 16-bit network address are used to identify the subarea?
5. What is the highest valid element defined in this NCP?
6. What is the subarea address of this NCP?
7. What is the path for a contact command for a type 4 PU?
8. What is the path for an 'activate physical' command for a type 4 PU?

Criterion If you missed more than one question, you should review this section.

# Network Control Program Physical Services

**Objective** Upon completion of this topic, the student should be able to identify the session hierarchy, physical services components, control blocks, and flow of data in physical services modules.

**Purpose of NCP Physical Services** The NCP physical services component is a collection of routines necessary for the control and/or modification of the communications network. NCP physical services are divided into two functional areas: (1) system control and (2) function management. The required services are selected via request codes in the PIU.

**Session Hierarchy** The requirement for physical services is based upon the session control of the network and the need to change network status. Before data can be transferred through the communication network, a physical and logical connection must be established between the origin and destination of the data request. This connection is referred to as a session. There are four types of sessions that are controlled by network commands. Figure 6.1 illustrates the four session types.

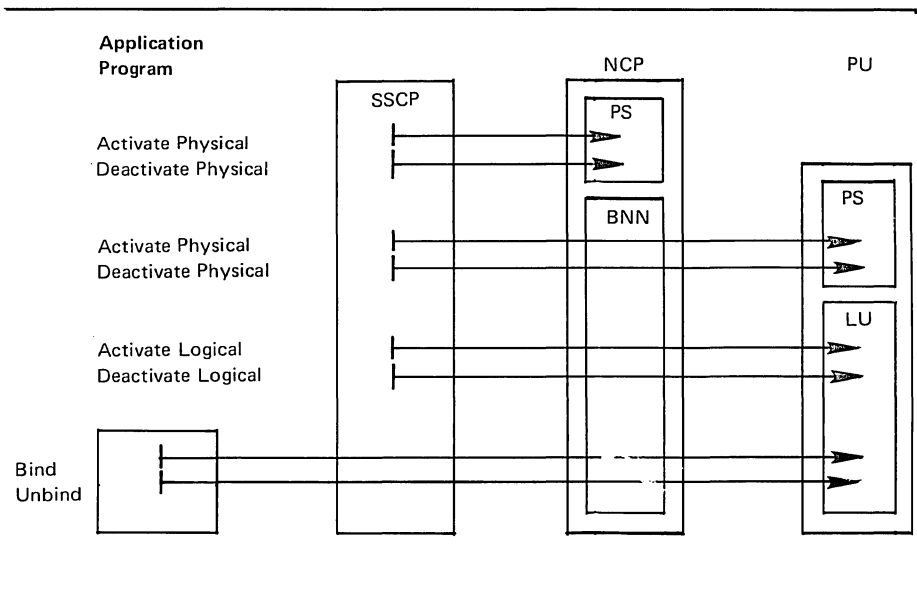


Figure 6.1. Session Hierarchy

**SSCP and NCP Physical Services** This session is initiated with an 'activate physical' command to NCP physical services from SSCP and is ended with a 'deactivate physical' command. The next command required is 'start data traffic' which enables data flow within a session. Data sent to physical services consists of requests to change the network status. Before any other sessions can be initiated, the links must be activated and physical units contacted.

An 'activate link' session control request is required to activate a link. The 'activate link' request causes the link scheduler to be initiated for this link.

Bit 1 of LKBSTAT (X'12') in the link control block (LKB) is set to 1 to indicate that an 'activate link' is in progress. For nonswitched links only, the modem is enabled. The LKBSTAT bit 0 is set to 1 to indicate an active link.

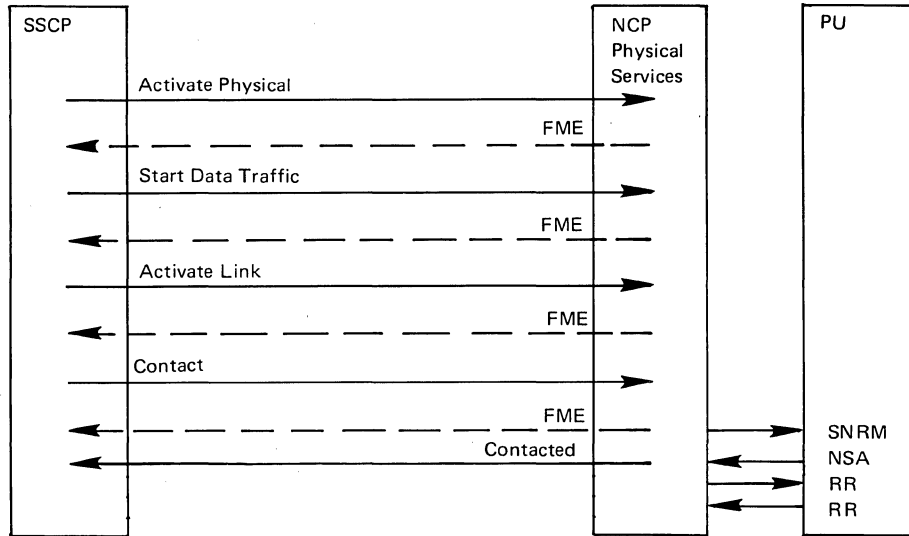


Figure 6.2. SSCP to NCP Physical Services Command Sequence

Switched links require an 'answer' or 'dial' command, and other switched commands which are covered later under switched support. A 'contact' command is required to contact a physical unit. Figure 6.2 illustrates the request sequence of a contact command. The contact request is acknowledged by physical services with a response to SSCP. The contact request also schedules a 'set normal response mode' (SNRM) SDLC command to the physical unit by setting the SNRM bit in the CUB plus X'1F'. On a timeout after an SNRM, the SNRM is retried on a user-specified basis. If a 'nonsequenced acknowledgement' (NSA) response is returned by the physical unit, a 'receive ready' (RR) SDLC command is sent to the physical unit, and a 'contacted' PIU is generated by NCP physical services and sent to SSCP. The link is marked active. The common physical unit block (CUB) CUBSSCF (X'1E') bit 2 (not operational bit) is turned off to indicate that the device is available for sessions to be established. Figure 6.3 illustrates the SSCP-PU and SSCP-LU activation sequence.

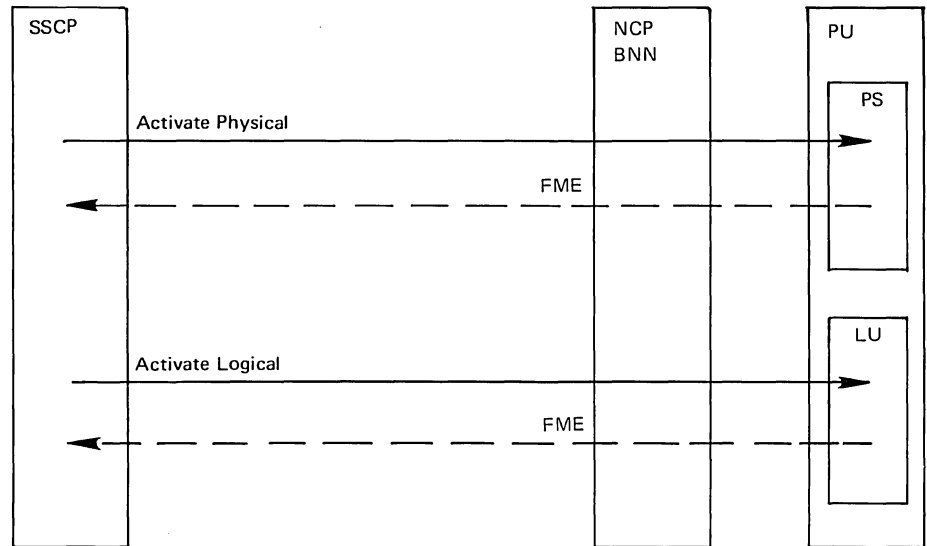


Figure 6.3. Activate Physical and Activate Logical Commands

**SSCP and PU Physical Services** The SSCP/PU session is established with an 'activate physical' command addressed to the common physical unit block (CUB) or station control block (SCB) defined by a PU macro. The session is ended by a 'deactivate physical' command. The SSCP/PU session must exist before any sessions can be established with logical units. The 'activate link' to the link and 'contact' command to the device must complete successfully before this session can be established. Type 2 and type 4 physical units receive and respond to the 'activate physical' command. The NCP processes this command for type 1 physical units (SDLC 3270 and 3767).

**SSCP and LU** The SSCP/LU session is initiated with an 'activate logical' command addressed to the logical unit block (LUB) defined by a LU macro. The session is ended by a deactivate logical command. This session must exist before a APPL/LU (host application/logical unit) session can be established. This command is processed by type 1, type 2, and type 4 physical units, except for the SDLC 3270. The NCP performs the processing and issues all responses for all commands addressed to the SDLC 3270.

**Host Application and LU** The APPL/LU (host application/logical unit) session is initiated with a 'bind' command addressed to the LUB. A 'start data traffic' command is required by some types of logical units before data flow can occur. The session is ended by an 'unbind'. Figure 6.4 illustrates the APPL/LU activation sequence.



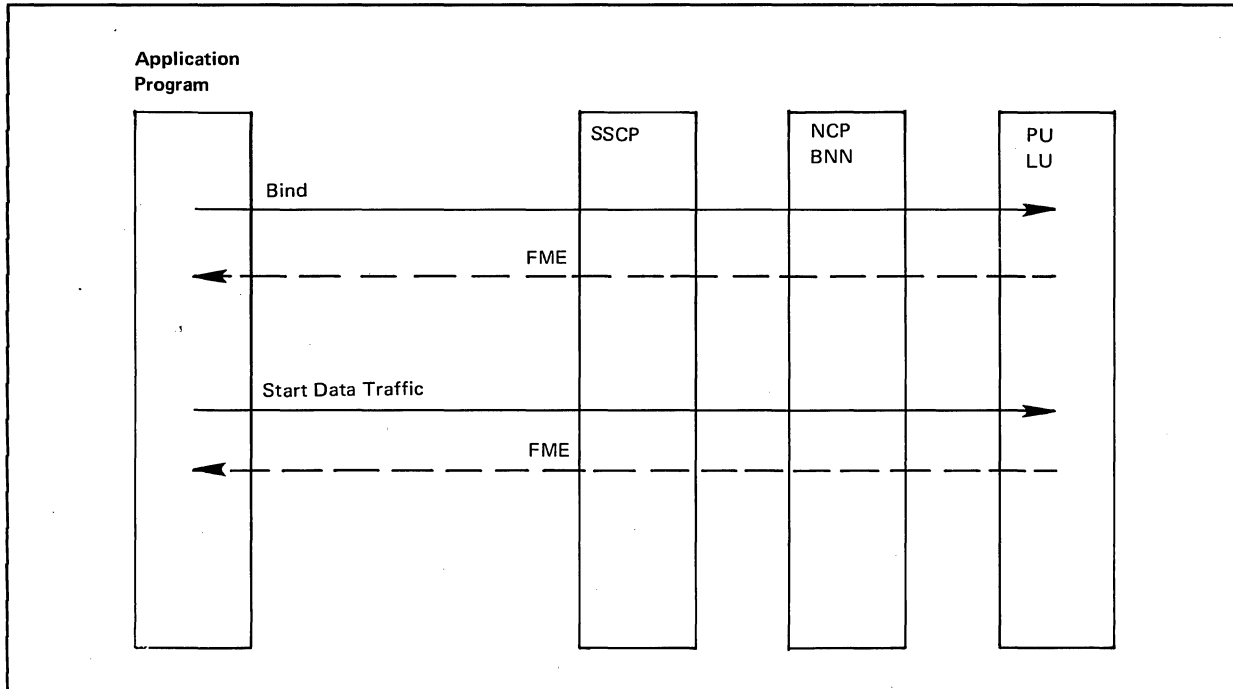


Figure 6.4. Bind and Start Data Traffic Commands

**BSC and SS note:**

Before data can be transferred, sessions must also be established between the host access and BSC/SS devices. These sessions are initiated and terminated within the NCP support for BSC/SS devices via BTU commands. This session level is covered separately in the BSC/SS Processor topic.

**Physical Services Block (PSB)**

The physical services block (PSB) contains the process queue control block for NCP physical services. The PSB also contains the network addresses of NCP physical services and the host 'system services control point' (SSCP). Other fields of interest are:

- X'00'      NCP physical services process QCB
- X'24'      Network address of NCP physical services
- X'26'      Network address of SSCP
- X'28'      Active link count
- X'2A'      NCP physical services status
- X'3C'      Auto network shutdown extension

**Physical Services Components**

The NCP physical services component interfaces with the 'system services control point' (SSCP) in the host to provide control functions for the NCP. Some of the functions provided on the basis of requests addressed to the NCP physical services by the host SSCP are:

- Activating and deactivating NCP physical services
- Activating and deactivating links
- Dial

- Answer
- Loading and dumping remote controllers
- Activating and deactivating nodes attached to this controller

NCP physical services is made up of three sections: connection point manager out (CPM-OUT), connection point manager in (CPM-IN), and function management (FM) router. NCP physical services also calls the system control router when necessary. The system control router is common to NCP physical services and NCP boundary network node physical services.

#### **Physical Services Connection Point Manager Out (CPM-OUT)**

Physical Services CPM-OUT receives a PIU addressed to NCP physical services. The PIU is validated and, according to the contents of the request/response header (RH) byte 0, CPM-OUT calls either the system control router or the function management router.

**Physical Services Connection Point Manager In (CPM-IN)** CPM-IN validates a PIU and XPORTs it to the channel adapter IOS for the host SSCP. All physical services requests and responses are directed to the host SSCP, bypassing path control. When link commands (dial, answer, contact, etc.) complete, NCP CPM-IN is triggered to change status fields and build a PIU to inform the host.

**System Control Router** The system control router receives control for a system control category PIU (from either NCP physical services CPM-OUT or boundary network node physical services). The PIU request unit (RU) request code is resolved and through a table lookup routine, the appropriate processor for that request code is given control. The values of bits in the RH and RU determine whether session control or function management gets control. The following identifies the commands and modules for the given RH/RU values:

*RH byte 0 x11xxxxx*

RU Byte 0

0D Activate logical CSDBSIL

0E Deactivate logical CSDBSTL

11 Activate physical (BNN) CSDBSIP

11 Activate physical (NCP) CSDBAPH

12 Deactivate physical (BNN) CSDBSTP

12 Deactivate physical (NCP) CSDBDPH

31 Bind CSDBSIA

32 Unbind CSDBSTA

A0 Start data traffic CSDBSDF

A1 Clear

A2 Set and test sequence numbers

A3 Request recovery

There are data commands addressed to the system router which have an RH byte 0 value of x01x xxxx. The commands are:

*RH byte 0 x01xxxxx*

RU byte 0 Command

- 07 Auto network shutdown complete
- 50 Initialization complete
- 51 Switch line to NCP mode (BSC/SS)
- 52 Switch line to EP mode (BSC/SS)

**Function Management (FM)** The function management router validates FM requests, selects a table of processors according to the RVT type field and, by using a table lookup routine, selects the appropriate processor according to the PIU RU request code. If the PIU RH byte 0 has a value of x00x xxxx, the function manager is given control. The PIU RU byte 1 value determines which of four FM categories is used. The PIU RU byte 2 contains the request code. Some of the valid codes are as follows:

*RH Byte 0 x10xxxxx*

RU byte 0 Command

- 04 Logical unit status
- 05 Ready to receive
- 80 Quiesce at end of chain
- 81 Quiesce complete
- 82 Release quiesce
- 83 Cancel
- 84 Chase
- C0 Shutdown
- C1 Shutdown complete
- C2 Request shutdown
- C8 Bid
- C9 Signal

*RH Byte 0 x00xxxxx, RU Byte 1 X'00'*

RU Byte 2 Command

- 01 Change device transmission limit (BSC/SS)
- 02 Change line negative poll response (BSC/SS)
- 03 Change line session limit (BSC/SS)

04 Change line service seeking pause (BSC/SS)

*RH Byte 0 x00xxxxx, RU Byte 1 X'02'*

- 01 Contact
- 02 Discontact
- 03 Load initial
- 04 Load data
- 05 Load final
- 06 Dump initial
- 07 Dump data
- 08 Dump final
- 09 Remote power off
- 0A Activate link
- 0B Deactivate link
- 0E Dial
- 0F Abandon connection

11 Set state vector

RU byte 5:

- 01 Time and date
- 02 Remote NCP/link association
- 03 Set control vector/switched PU
- 04 Set control vector/switched LU
- 05 Set control vector/channel delay

14 Entering slowdown

15 Exiting slowdown

16 Answer

17 Abandon answer mode

18 Abandon dial

19 Assign network address

1A Free network addresses

80 Contacted

81 Inoperative

84 Off hook

*RH Byte 0 x00xxxxx, RU Byte 1 X'03'*

01 Execute test

02 Activate line trace

- 03 Deactivate line trace
- 81 Record maintenance statistics
- 82 Record test data
- 83 Record trace data

*RH Byte 0 x00xxxxx, RU Byte 1 X'06'*

- 04 Nonsequenced procedure error
- 81 Initiate self
- 83 Terminate self

**Network Control  
Program Physical  
Services Flow**

Physical services CPM-OUT receives control via an enqueue macro with the ACTV=YES operand. This macro is issued by 'path control out'. This queuing occurs when 'path control out' receives a PIU with a DAF destined for NCP physical services. The PIU is enqueued on the physical services outbound queue in the physical services block (PSB). The task entry pointer for the PSB QCB points to the NCP physical services CPM-OUT.

CPM-OUT gets the contents of the PIU RU byte 0. If not a X'11' request code ('activate physical'), CPM-OUT verifies the PIU OAF by comparing it to the network address in the PSB at offset X'26'.

Physical services CPM-OUT uses bits 1 and 2 of the PIU RH byte 0 to determine the type of request. Both bits 'off' signifies a function management request. If the PIU is a system control request, the system control router is called.

Function management performs more verification on a request by checking the sequence number of the PIU against the PSB offset of X'20'. CPM-OUT assumes that the request following the 'activate physical' from the SSCP to physical services must have a sequence number of 1 in its transmission header. Each subsequent function management request is expected to have a sequence number one greater than the previous request. The PSB is checked for 'session established' and 'data flow enabled' at PSB offset X'2A', testing for a value of 11xx xxxx. If all of the above tests are met, the function management router is called.

The system control router and the function management router both use a table lookup routine in conjunction with the PIU request code to select a processor. There are significant differences between the two routers.

The system control router first uses the DAF from the TH and the UIB1TYPE byte of the PIU to set an indicator showing the destination type for this PIU. The indicators are as follows:

- X'80' Request is for NCP physical services
- X'00' Request is for BNN physical services
- X'40' Request is for a BNN logical unit

The indicator is used as the second byte of a two-byte table search argument. The request code from the RU1RCO byte of the PIU is used as the first byte of the search argument.

The search argument is compared to the first two bytes of each entry of the system control router table (SCRT). When a match is found, the routine pointed to in that entry is given control. X'FFFC' indicates the end of the SCRT.

The function management router activates links, contacts physical units, and performs similar services.

Function management requests are divided into four subcategories. The type of subcategory is determined by the contents of the RU1BT1 byte of the PIU as follows:

- X'00' BSC/SS service request
- X'02' Physical configuration services request
- X'03' Physical maintenance request
- X'06' Session services request

Once the function management router determines which subcategory the requests are for, the RVTTYPE bytes within the RVT are used to select the proper table within that subcategory. An example of this table selection is the physical configuration subcategory which contains three tables:

1. Link configuration table
2. NCP configuration table
3. Station configuration table

Finally, the function management router uses the request code in the RU1RC2 byte of the PIU as a search argument for the selected table. When a match is found, the routine pointed to in that entry is given control. The function management router tables are delimited by a X'80'.

**Network Control  
Program Physical  
Services Control Block  
(PSB)**

The physical services control block (PSB) can be located by the first entry in the resource vector table (RVT). The RVT-minus-2 address can be found at X'7E8' in the word direct addressables (XDA). The following PSB fields are of special interest:

X'00'	Shifted address of first element queued
X'02'	Shifted address of last element queued
X'04'	Task and queue status
X'08'	CPM-OUT task address
X'10'	Shifted address of first element queued
X'12'	Shifted address of last element queued
X'14'	Task and queue status
X'18'	CPM-IN task address
X'20'	Inbound sequence number
X'22'	Outbound sequence number
X'24'	Network address of NCP physical services

X'26'	Network address of SSCP
X'28'	Count of active links
X'2A'	Physical services status
X'2C'	NCP ID

**Network Control  
Program Physical  
Services Summary**

Physical services provides services for system control requests and function management requests. The initialization of NCP, activation of lines, initial contact of devices, etc., all are performed by physical services. Host control requests are sent to physical services in the PIU RU with the command type, command, and resource address of the element to be affected by the command.

**Network Control  
Program Physical  
Services Quiz**

Use the storage dump listing in Appendix C to answer the following problems.

Do not refer to the answers in Appendix B until you have answered all questions.

1. What is the address of the PSB?
2. What is the NCP load module name?
3. Has an 'activate physical' command been processed?
4. Has a 'start data traffic' command been processed?
5. How many links are active?
6. What is the next sequence number PIU expected from SSCP to physical services?
7. Are any PIUs queued for processing by physical services?
8. The buffer pool is formatted in Appendix C. Analyse the following buffers to determine PIU origin, destination, command, and element affected by the command:

X'19CA8' through X'19E24'

X'1A628' through X'1A7A4'

X'1A8D4'

9. The buffer pool is formatted in appendix C. Analyse the following buffers to determine PIU origin, destination, command, and element affected by the command:

X'1A038' and X'1A168'

**Criterion**

If you miss more than two questions, you should review this material.

## Boundary Network Node (BNN)

**Objective** Upon completion of this topic, the student should be able to identify the boundary network node components, control blocks, and flow of data in physical services modules.

**Function of the Boundary Network Node** The NCP boundary network node (BNN) is the interface between the host SSCP and the link scheduler. The BNN processes PIUs containing control requests and data associated with sessions between:

- SSCP and the physical units (SSCP/PU)
- SSCP and the logical unit (SSCP/LU)
- Host application and the logical unit (APPL/LU).

The two major elements of BNN are 'connection point manager' (CPM) and 'path control in'.

The boundary network node (BNN) of NCP can be divided into two sections. The first section consists of PIUs travelling to physical unit (PU) or logical unit (LU) on an SDLC link. The second section are PIUs travelling from a physical unit (PU) or logical unit (LU).

There are three distinct paths through the BNN for PIUs travelling in either direction. These paths relate to the session which can be established with PUs or LUs. The possible sessions are: SSCP/PU, SSCP/LU, and APPL/LU.

**BNN Control Blocks** The BNN processes FID1, FID2, and FID3 PIUs. The formats of the PIU were covered in the Network Control Program Supervisor section. References are made to NCP physical services control block (PSB) (covered in the previous section on physical services) and the link control block (LKB), which is checked for link status (covered in detail in the link scheduler section). The two new control blocks used primarily by the BNN code are the common physical unit block (CUB) and the logical unit block (LUB).

**Common Physical Unit Block (CUB)** The common physical unit block (CUB) is generated by a PU macro. The CUB represents the physical device for SDLC control and queuing of inbound and outbound PIUs for this physical and logical unit group. The CUB provides a link inbound queue control block at CUB offset X'00' to X'0F' for queuing of all inbound PIUs from the device *and* dispatching of 'path control in delayed'. PIUs addressed to the CUB are queued on the QCB at CUB offset X'3C' to X'4B' for processing by SSCP/PU connection point manager out. After processing is complete and the PIUs for the physical or logical units are ready to be sent to the device, the PIUs are placed on the link outbound queue at CUB offset X'10' to X'13'. The key fields of the CUB are:

- X'00' Shifted address of first element on the link inbound queue (all FID1 and FID2 PIUs from the device, including logical units)
- X'02' Shifted address of last element on the link inbound queue
- X'08' Address of task 'path control in delayed'



- X'10' Shifted address of first element on link outbound queue (all FID1 and FID2 PIUs to the device, including logical units)
- X'12' Shifted address of last element on link outbound queue
- X'14' Shifted address of first element on link outstanding queue (a maximum of seven PIUs sent on link but not acknowledged)
- X'16' Shifted address of last element on link outstanding queue
- X'18' Address of link control block (LKB)
- X'1C' Network address of CUB
- X'1E' Service-seeking and contact poll status
- X'22' Transmission counter
- X'24' Specification of CUB
- X'24' Address of physical services
- X'3C' Shifted address of first element on SSCP/PU queue
- X'3E' Shifted address of last element on SSCP/PU queue
- X'44' SSCP/PU CPM-OUT task address
- X'4C' Device status
- X'4E' Segment size in NCP buffers
- X'50' Segment size in bytes (maximum)

*Switched Extension*

- X'54' Maximum LUVT entries
- X'54' LUVT address (last 18 bits)

**Logical Unit Control Block (LUB)** The logical unit control block (LUB) is generated by the LU or LUPool macros. LU macros must immediately follow the PU macro they are associated with and must be in LOCADDR operand sequence. The network addresses of the logical units are consecutively numbered from the physical unit. This addressing scheme is used in converting PIUs to or from the different FID formats. There are two queues in the LUB, one for SSCP/LU sessions and one for APPL/LU sessions. The SSCP/LU queue is at LU X'00' to X'0F'. The APPL/LU queue is at LU X'10' to X'1F'. The key fields of the LU are:

- X'00' Shifted address of first element on the SSCP/LU queue
- X'02' Shifted address of last element on the SSCP/LU queue
- X'08' SSCP/LU CPM-OUT task address
- X'10' Shifted address of first element on the APPL/LU queue
- X'12' Shifted address of last element on the APPL/LU queue
- X'18' APPL/LU CPM-OUT task address
- X'20' Address of common physical unit block (CUB)
- X'24' Network address of this LU

X'26'	Transmission counter
X'28'	Logical unit status (SSCP/LU)
X'2A'	Network address of host application in session
X'2C'	Logical unit status (APPL/LU)
X'2E'	Pacing parameters (3 bytes)
X'31'	Local address of logical unit
X'32'	Type 1 PU extension for sequence checking

### Host to PU PIU Processing

**BNN Queues for PIUs from the Host** PIUs travelling from the host to the link scheduler are received by channel adapter IOS, passed to 'path control out', and enqueued to a processing queue. If a PIU is for a PU from SSCP, the PIU is enqueued on the SSCP/PU queue within the common physical unit block (CUB) CPQ1ECB at offset X'3C'. If the PIU is for an LU from SSCP, the PIU is enqueued on the SSCP/LU queue of the logical unit control block (LUB) LUL1ECB at offset X'00'. If the PIU is for an LU from an application program, the PIU is enqueued on the APPL/LU queue of the logical unit control block (LUB) LUA1ECB at offset X'10'.

Each of the PIUs for the three types of sessions is enqueued on an input QCB which has a task entry point of a 'connection point manager out' (CPM-OUT). Each type of session has a separate CPM-OUT because the processing is different for each type of session. The task pointer in the SSCP/PU processing QCB for the CUB points to the SSCP/PU CPM-OUT. The task pointer in the APPL/LU processing QCB for the LUB points to the APPL/LU CPM-OUT. The ENQUE macro issued in 'path control out' includes the ACTV=YES operand which causes the associated task to be triggered. When the task is dispatched, the appropriate CPM-OUT has control.

**Connection Point Manager Out (CPM-OUT)** The three types of CPM-OUT processors perform similar functions but are different enough to be covered individually.

#### *SSCP/PU CPM-OUT*

The PIU is validated as a FID1 format. Only a FID1 format is valid for the host-to-BNN routines.

The PIU origin address field (OAF) is compared to the network address of the SSCP, which is stored in the physical services block (PSB) by the 'activate physical' command from SSCP to NCP physical services. Only the SSCP in session with the NCP can create this SSCP/PU session or communicate over this path.

The CUB cannot accept any SSCP/PU commands unless the PU is operational. This operational status occurs by means of a command directed from SSCP to NCP physical services function management of a contact command. The contact command schedules a 'set normal response mode' (SNRM) SDLC command to the device. A 'nonsequenced acknowledgement' (NSA) reply indicates that the command was received by the device. Then a 'receive ready' (RR) SDLC command is sent to the device. A 'receive ready' (RR) response indicates that the physical unit is ready for session initiation. Bit 2

of CUBSSCF at offset X'1E' of the common physical unit block (CUB) is set to zero to indicate that the CUB is operational.

If the PIU is a control request, with an x11x xxxx in byte 0 (RH1BO) of the RH, the system control router is called. This is the same system control router which is used by NCP physical services. If the control command in byte 0 of the RU is X'11' ('activate physical'), CPM-OUT checks for a session established at bit 0 of X'4C' (CUBPSTAT) in the CUB. If a session is already established, the request is rejected and returned to SSCP. If a session is not established, bit 1 of byte X'4C' CUBPSTAT is turned on to indicate that a session initiation request is being processed. CPM-OUT branches to 'path control out delayed' to convert the FID1 to a FID2 and enqueue the PIU for transmission to the CUB link outbound queue at CUB plus X'10' (CUBLOBH). If the physical unit is a type 1, the 'activate physical' command is processed by the NCP and not transmitted to the physical device. The response is created in the NCP for reply to the SSCP.

If the device is an SDLC 3270, all commands are processed by the NCP, and all replies on behalf of the 3270 are created by NCP and sent to the host.

If the PIU is not a control request (RH byte 0 value of x00x xxxx), the CUB is checked at offset X'4C' for bit 0 value of 1 to confirm that a session has been established. If a session has been established, CPM-OUT branches to BNN 'path control out delayed' to convert the FID1 to FID2 (or FID3) and enqueue the PIU for transmission to the CUB link outbound queue at CUB plus X'10' (CUBLOBH).

#### *SSCP/LU CPM-OUT*

The SSCP/LU CPM-OUT processing performs the following functions:

The PIU is validated as a FID1 format. Only a FID1 format is valid for the host-to-BNN routines.

The PIU origin address field (OAF) is compared against the network address of the SSCP, which is stored in the physical services block (PSB) by the 'activate physical' command from the SSCP to NCP physical services. Only the SSCP in session with the NCP can create this SSCP/LU session or communicate over this path.

The SSCP/LU session cannot exist unless the SSCP/PU session is established. The CUB is checked for a 1-bit in bit 0 of X'4C' (CUBPSTAT), indicating an active SSCP/PU.

If the PIU is a control request with an x11 xxxx in byte 0 of the RH, the system control router is called. This is the same system control router which is used by NCP physical services. If the control command in byte 0 of the RU is X'0D' ('activate logical'), the LUB is checked for an existing session at LUB plus X'28' (LUBCPSET) indicated by a 1 in bit 0. If no session exists, bit 3 in X'28' (LUBCPSET) is set to 1 to indicate that an 'activate logical' command is being processed. CPM-OUT branches to BNN 'path control out delayed' to convert the FID1 to a FID2 (or to a FID3 if the CUB is a type 1 physical unit) and to enqueue the PIU for transmission to the CUB link outbound queue at CUB plus X'10' (CUBLOBH).

If the PIU is not a control request (RH byte 0 value of x00x xxxx), the LUB is checked at offset X'28' (LUBCPSET) for a bit 0 value of 1 to confirm that a session has been established. If a session has been established, CPM-OUT branches to BNN 'path control out delayed' to convert the FID1 to a FID2 (or to a FID3) and enqueue the PIU for transmission to the CUB link out-bound queue at CUB plus X'10' (CUBLOBH).

#### *APPL/LU CPM-OUT*

The APPL/LU CPM-OUT processing performs the following functions:

The PIU is validated as a FID1 format. Only a FID1 format is valid for the host-to-BNN routines.

The APPL/LU CPM-OUT processor checks to verify that an 'activate logical' command established an SSCP/LU session by testing at LU plus X'28' (LUBCPSET) bit 0 for a value of 1.

If the PIU is a control request with an x11x xxxx in byte 0 of the RH, the system control router is called. This is the same system control router which is used by the NCP physical services. If the control command in byte 0 of the RU is X'31' ('bind') the LUB is checked for an active session bit 0 value of 1 in LUB plus X'2C' (LUBAPSET). If no 'bind' command has established a session, bit 3 of byte X'2C' of the LUB is set to 1 to indicate that a 'bind' is being processed. CPM-OUT branches to 'path control out delayed' to convert the FID1 to a FID2 (or FID3) and to enqueue the PIU for transmission to the CUB link outbound queue at CUB plus X'10' (CUBLOBH).

If the PIU is not a control request (RH byte 0 value of x00x xxxx), the LUB is checked at offset X'2C' (LUBAPSET) for a bit 0 value of 1 to confirm that a session has been established.

#### *Pacing from APPL/LU CPM-OUT to LU*

Pacing or the lack of pacing can have a significant effect on the performance of the network. There are two key areas where pacing can be defined for the network: (1) a PIU can be paced between the host and APPL/LU CPM-OUT, and (2) from APPL/LU CPM-OUT and a logical unit. Pacing is always on a APPL/LU basis. The PACING operand provides control of PIU flow between the NCP and the logical unit. VPACING provides control of PIU flow between a VTAM host application and APPL/LU CPM-OUT on a logical unit basis. PACING is covered first because VPACING does not work unless PACING is also used.

If pacing is not defined for each logical unit, the PIUs are processed and placed on the link outbound queue as they are received by the NCP. The link scheduler dequeues and transmits PIUs to the logical units. In a physical unit there is a fixed number of physical buffers per logical unit. If the physical unit buffers are filled, subsequent PIUs transmitted by the link scheduler are rejected for lack of buffers. The link scheduler retransmits until PIUs are accepted or an error threshold is reached. This retransmission not only adds overhead by executing the link scheduler but also uses line capacity, thereby degrading line capacity. The physical unit buffers may be tied up by the PIUs for one logical unit, while the remaining logical units are waiting for PIUs because of a lack of physical unit buffers.

Pacing is defined by two operands of N and M. An operand of PACING=(N,M) specifies that N PIUs are to be sent to the logical unit before waiting for a pacing response. The M value defines which of the N PIUs carries the request for a pacing response.

There are five fields used for pacing control. The PIU has one bit for pacing control. If bit 7 of RH1B1 is 1 in a request between NCP and the logical unit, the request is for a pacing response by the M PIU. The pace bit 1 in a response between the logical unit and the NCP identifies a reply to a request for a pacing response, indicating that the logical unit is available for the next PIU. The other four fields are in the logical unit control block (LUB) in the following fields:

- X'2D' LUBASSET bit 1, waiting (1) or not waiting (0) for a pacing response
- X'2E' LUBM M pacing parameter
- X'2F' LUBN N pacing parameter
- X'30' LUBPC pacing count

If the LUBN field has a 0 value, pacing is not defined. If pacing is not defined, CPM-OUT processes PIUs as they arrive and places them on the link outbound queue. If LUBN has a non0 value, the following pacing processing occurs:

1. Pacing between the NCP and logical unit by APPL/LU CPM-OUT first checks LUBASSET for a 'waiting for a pacing response'. If a wait is indicated, the PIU remains in the APPL/LU queue on the LUB and CPM-OUT EXITs. CPM-OUT is triggered again by CPM-IN when a pacing response is received.
2. If step 1 did not suspend processing, the LUBPC pacing counter is incremented by 1 and compared to LUBM. If LUBPC is equal to LUBM, the current PIU carries the pacing request. The RH1B1 bit 7 is set to 1. The PIU is queued to the CUB link outbound queue for transmission.
3. The pacing counter, LUBPC, is compared to LUBN. If the fields are not equal, the next PIU is processed at step 1. If the LUBPC and LUBN fields are equal, the LUBASSET 'waiting for pacing response' bit is set on.

Processing of PIUs loops through steps 1, 2, and 3 for each PIU until the LUBPC counter equals LUBN limit. An equal condition turns on the 'waiting for pacing response'.

4. When a pacing response is received from the logical unit by CPM-IN, the following processing occurs:
  - The LUBASSET 'waiting for pacing response' is turned off.
  - The pace bit (pace response) in the PIU is turned off.
  - The LUBPC counter is reset to 0. If a pacing response returns before the LUBN limit is reached, the 'waiting for pacing response' bit is not 1, so a new pacing sequence is initiated by resetting the pacing counter. The pacing counter is reset when

PACING=(2,1), only one PIU is available for transmission, and the response arrives before the N limit is reached.

- The PIU is checked for response status. If the PIU which carried the pacing request did not request an FME or RRN response, the PIU was sent to the NCP merely as a pacing response. The buffer is returned to the free buffer pool. If the PIU which carried the pacing request also required a response (FME or RRM), the response to the host continues.
- The APPL/LU CPM-OUT queue is searched for an enqueued PIU. If a PIU is on the queue, CPM-OUT is triggered to begin the next pacing sequence.

#### *Pacing from SSCP to APPL/LU CPM-OUT*

The VTAM VPACING parameter can control PIU traffic on a per-logical-unit basis between the host and the NCP. The VPACING operand is required to avoid NCP buffer depletion by an unlimited number of PIUs sent to the NCP from the host. The only alternate to VPACING is for each application program to send a limited number of PIUs before waiting for an FME response. VPACING limits are controlled by SSCP, which eliminates the concern for controls in each host application.

One important consideration for VPACING is the requirement for concurrent PACING. The following VPACING logic should make clear that VPACING has no effect unless PIUs are held on the APPL/LU queue by the PACING scheduling.

VPACING is defined by two operands of N and M, the same as PACING. The VPACING=(N,M) specifies N PIUs are to be sent to the NCP before waiting for a pacing response. The M value specifies which of the N PIUs carries the request for a pacing response.

The M, N, count, and bit indicating 'waiting for VPACING response' from NCP are in the SSCP. Our concern is the manner in which NCP looks for a pacing request from SSCP and how NCP sends a pacing response. VPACING uses the same pacing bit in the RH1B1 of the PIU, which is used for PACING between the NCP and logical unit. VPACING also uses the logical unit control block (LUB) field of LUBASSET (X'2D'). Bit 3 of LUBASSET is used to indicate that a pace response is required by SSCP.

VPACING processing is easily incorporated into the previous processing example for PACING. Only two processing points are added by VPACING.

When a PIU is enqueued on the APPL/LU, the CPM-OUT is triggered as specified in PACING step 1. If the APPL/LU CPM-OUT is waiting for a pacing response from the logical unit, the new PIU is placed on the APPL/LU queue without any processing. If the APPL/LU CPM-OUT is not waiting on a logical unit pacing response, the first PIU on the queue is dequeued for the following processing:

1. If the pace bit in RH1B1 of the PIU is 1, the PIU is checked to determine if a response (FME or RRN) to the host is required by this PIU. If no response is required, a response PIU is created with the pace bit of 1, and the response PIU is XPORTed to the host. If a response is

required, the 'pace required by host' bit is set in LUBASSET for future use by the response. The pace bit in RH1B1 is turned off (0), VPACING outbound processing is complete, and step 1 of PACING can begin.

VPACING inbound processing occurs after step 4 of PACING is complete.

2. The LUBASSET field is checked for 'pace required by host'. If the bit is 1, it is changed to 0 and the pace bit in RH1B1 of the PIU response is set to 1 to be sent to the host.

VPACING logic depends upon a delay on the APPL/LU CPM-OUT queue for PACING. If PACING is not specified, CPM-OUT immediately processes PIUs, sends a pace response to the host, and queues the PIU on the link outbound queue.

The transfer of data in a session requires that a consecutive sequence number be maintained for PIU requests. A PIU from the host application to an LU contains a PIU sequence number field at TH1SNF (X'14'). The type 2 physical unit performs its own sequence checking. Type 1 physical unit number generation inbound and sequence checking outbound is performed by the NCP, using the type 1 LUB extension at LUB plus X'32'.

Control requests are asynchronous and are not sequence-numbered or sequence-checked. Only one asynchronous control command can be outstanding in a session.

**BNN Path Control Out Delayed** 'Path control out delayed' is common to all BNN session types. 'Path control out delayed' converts the FID1 PIU to FID2 or FID3 PIU. For APPL/LU sessions, the PIU is segmented if the length exceeds the physical unit line-buffer size. Finally, 'path control out delayed' issues an XIO LINK which causes the PIU to be enqueued on the common physical unit block (CUB) link outbound queue.

#### *FID1 to FID2 Conversion*

When the PIU is received by 'path control out delayed', the PIU is checked to ensure it is a valid FID1 PIU. Conversion does not change the request/response header (RH), request/response unit (RU) or text. The only change is to the transmission header (TH). The TH1DCF count field at offset X'16' and one byte from the OAF and DAF fields are deleted.

The TH1SNF sequence number field at offset X'14' is moved to X'16'.

Both the destination address field (DAF) and the origin address field (OAF) are two-byte fields in a FID1 PIU. The FID2 format provides only a single byte for each of these fields. The PIU has reached the destination point of the network address by being queued to the specific control block which defines the physical destination point. The full network address is no longer required. The origin and destination addresses need identify only the device local address and determine that the session is an SSCP or application.

If the FID1 origin address field (OAF) is from SSCP, the FID2 OAF field is set to a value of X'00'. If the PIU is from an application program, the field is set to X'01'. The FID2 OAF is at TH2OAF at offset X'15' where the original

FID1 sequence number was located. The destination address field (DAF) is obtained from the LUB plus X'31'.

If a FID1 PIU is queued to an LUB, the network address of the CUB is located in the LUB at LUBCUB at offset X'20'. The CUB network address is at the CUB field of CUBRSE at offset X'1C'. A PIU sent to an LUB may be from SSCP (identified by X'00') or from the application program (identified by X'01') in the FID2 OAF field. A valid combination is one of the following:

- DAF X'00',OAF X'00' SSCP to CUB physical services (type 2 PU); type 1 PU commands are processed by NCP and the logical units start at zero)
- DAF X'nonzero',OAF X'00' SSCP to LU
- DAF X'nonzero',OAF X'01' host application to LU

The next conversion moves the FID1 TH1B1 field from offset X'0F' to X'13' unchanged. The TH1B0 from X'0E' is moved to X'12', with bit 3 set to 0 (FID1 indicator) and bit 2 set to 1 (FID2 indicator).

A four-byte gap has been created from X'0E' through X'11'. The buffer offset is incremented by 4 and the buffer data count field is decremented by 4 to adjust for the change. The PIU FID1-to-FID2 conversion is complete. If the PIU is destined for a type 2 physical unit and the PIU is from SSCP (a command), the PIU is placed on the common physical unit block (CUB) link outbound queue by an XIO LINK. The link outbound queue is in the CUB at CUBLOBH (link outbound header) and CUBLOBT (link outbound trailer) at offsets X'10' and X'12'. During normal execution, the link scheduler locates the PIU. Only an APPL/LU PIU requires additional processing. If the physical device is a type 1, the FID2 must be converted to a FID3 before being placed on the link outbound queue.

#### *FID2 Segmenting*

A PIU from an application differs in processing only if the converted PIU length exceeds the physical buffers of the device, as defined by the MAXDATA operand on a PU macro. If the PIU length is greater, the segmentation routine (CXDBSEG) divides the PIU into segments which are equal to or less than the length of the buffers in the physical device. The routine leases a buffer and copies the TH of the original PIU, setting the TH2B0 first segment, middle segment, last segment indicators as required. Segmenting is based upon the NCP buffer size. A segment length is based upon the data length to the size of one or a multiple of the NCP buffers. A middle or last segment always starts with a leased buffer containing the copied TH and continues with the text from the beginning of an NCP host buffer.

A first segment contains the TH, RH, and a portion of the RU, in multiples of full NCP buffers, the total length of which is less than or equal to MAXDATA size. A nonfirst segment is TH (copied from the first segment into a separate buffer) plus one or more full NCP buffers of less than or equal to MAXDATA size. If PIUs of more than MAXDATA length are used, the NCP buffer size should be selected to provide an efficient segment length. If segmenting is not normal, the segment length should not be a consideration in selecting an NCP buffer size.



Figure 7.1 illustrates a PIU which requires segmenting. The PIU from the host contains 553 bytes (540 bytes of RU). The physical unit definition is coded MAXDATA=265. The NCP buffers are defined as 60 bytes (plus a 4-byte pad). Segment size is in full NCP buffers. The segments sizes are:

- First segment, TH=6, RH=3, and RU=217, from the first four NCP buffers. The RU is made up of 37 bytes of the first buffer and 180 bytes of the second, third, and fourth buffers.
- Middle segment, TH=6 and RU=240. The TH is copied from the first buffer into a leased buffer. The RU is from buffers five, six, seven and eight.
- Last segment, TH=6 and RU=83. The TH is copied from the first buffer into a leased buffer. The RU is from buffers nine and ten.

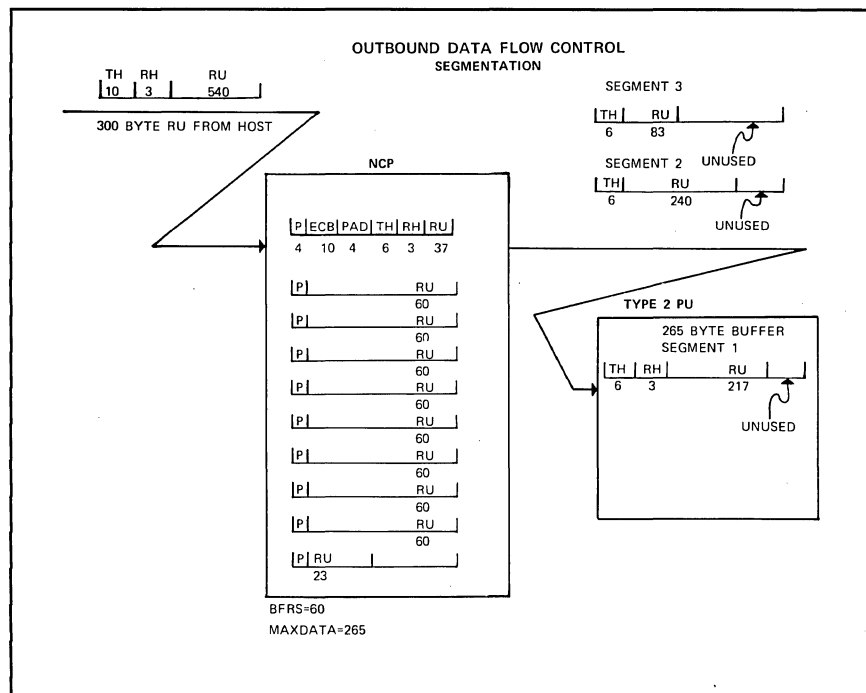


Figure 7.1. Segmentation Example

As each segment is created, it is placed on the link outbound queue of an XIO LINK, just as in the processing of the nonsegmented PIUs. Pacing occurs on complete PIUs, not PIU segments. Keep in mind that the PU physical line buffers may be overrun.

Segmenting may not be supported by a specific terminal type. In addition, you should not confuse *segmenting* (TH indicated) between an NCP and a terminal with *chaining* (RH indicated) between a host application and a terminal.

#### FID2 to FID3 Conversion

After the normal processing of 'path control out delayed' is completed (except for placing the PIU on the link outbound queue), a last check is made for a type 1 or a type 2 physical unit. If the bit settings in the common physical

unit block (CUB) indicate that the physical unit is a type 1, the FID2 must be converted to a FID3.

Conversion of the FID2 to a FID3 format affects only the transmission header (TH) fields. Four more bytes in the original buffer are now reserved fields and only two bytes of TH are used. The first byte of FID3 TH contains the FID3 identifier at buffer offset of X'16'. The offset of X'17' contains two bits of information defining the session as follows:

- Bit 0 - 1=to/from application, 0=to/from SSCP
- Bit 1 - 1=to/from logical unit, 0=to/from physical unit

The remaining six bits contain the device local address of the destination of this PIU.

**Summary of Host-to-Physical Unit Processing** Figure 7.2 illustrates the flow of a PIU through the boundary network node (BNN) for a PIU from the host. There are three paths for BNN outbound processing. A PIU is enqueued to one of three queues for one of three paths through BNN.

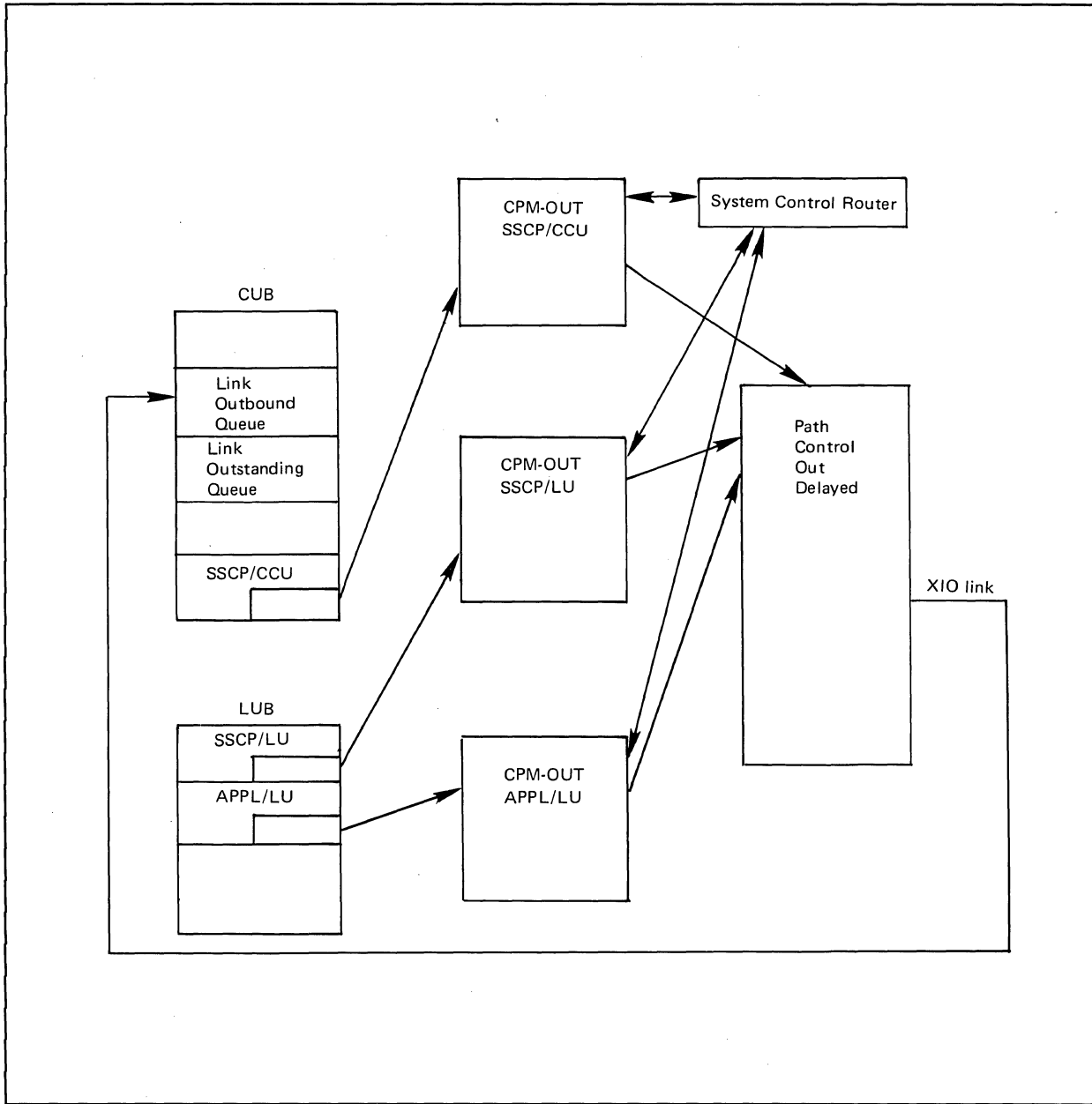


Figure 7.2 Boundary Network Node Path Flow

1. A PIU from SSCP to a physical unit is enqueued on the CUB processing queue at CUB1ECB (X'3C'). This queuing triggers the SSCP/PU connection point manager out (CPM-OUT). If the PIU is a system control command, the PIU is passed to the system control router for processing, then is returned to SSCP/PU CPM-OUT. Type 1 PU commands are processed by NCP, and SSCP/PU CPM-IN is triggered for responses. A type 2 PU PIU is passed to 'path control out delayed' for conversion to a FID2. The PIU is passed to the link scheduler by placing the PIU on the CUB link outbound queue at CUBLOBH (CUB plus X'10').

2. A PIU from SSCP to an LU is enqueued on the LUB session control point (SCP) process queue at LUL1ECB (offset X'00'). The queueing triggers the SSCP/LU connection point manager out (CPM-OUT). The PIU is passed to the system control router for processing and the PIU is returned to SSCP/PU CPM-OUT. Type 1 PU commands are processed by NCP, and SSCP/LU CPM-IN is triggered for responses. A type 2 PU PIU is passed to 'path control out delayed' for conversion to a FID2. The PIU is passed to 'path control out delayed' for conversion to a FID2 format, then to the link scheduler by being placed on the CUB link outbound queue at CUBLOBH (CUB plus X'10').
3. A PIU from an application to a logical unit is enqueued on the LUB application process queue at LUA1ECB (offset X'10'). This queueing triggers the APPL/LU connection manager out (CPM-OUT). If the PIU is a system control command, the PIU is passed to the system control router for processing. Type 1 PU commands are processed by the NCP, and APPL/LU CPM-IN is triggered for the reply. The type 1 physical unit data is sequenced-checked. Type 1 and type 2 physical unit PIUs are processed for host/NCP VPACING and NCP/LU PACING. The PIU is passed to 'path control out delayed' for conversion to a FID2 format and for segmenting, if it is required. Only APPL/LU data PIUs are segmented.

The CUB is checked for type 1 PU or type 2 PU. If the CUB is a type 1 PU, the PIU is converted to a FID3 format. The PIU is passed to the link scheduler by placing the PIU on the CUB link outbound queue at CUBLOBH (CUB plus X'10').

#### Physical Unit-to-Host PIU Processing

**Boundary Network Node Queues for PIUs from the Physical Unit** PIUs travelling from the link scheduler to the host are processed by 'path control in immediate', which is branched to by the link scheduler. Both routines execute in level 3. 'Path control in immediate' validates the PIU, XPORTS FID0 and FID1 formats from a remote to the channel queue, or enqueues the FID2 or FID3 to the common physical unit block (CUB) link inbound queue at CUB1ECB (offset X'00'). 'Path control in delayed' (at level 5) is triggered by the enqueueing and performs FID2 or FID3 to FID1 conversion. The FID1 is then passed to one of three connection point managers in (CPM-IN), depending upon the type of session. CPM-IN XPORTS the PIU to the channel queue.

Figure 7.3 illustrates the processing path of a PIU going from a type 1 or type 2 physical unit to the host. The type 4 physical unit path from 'path control in immediate' is an XPORT to the channel intermediate queue on the COB or CHB.

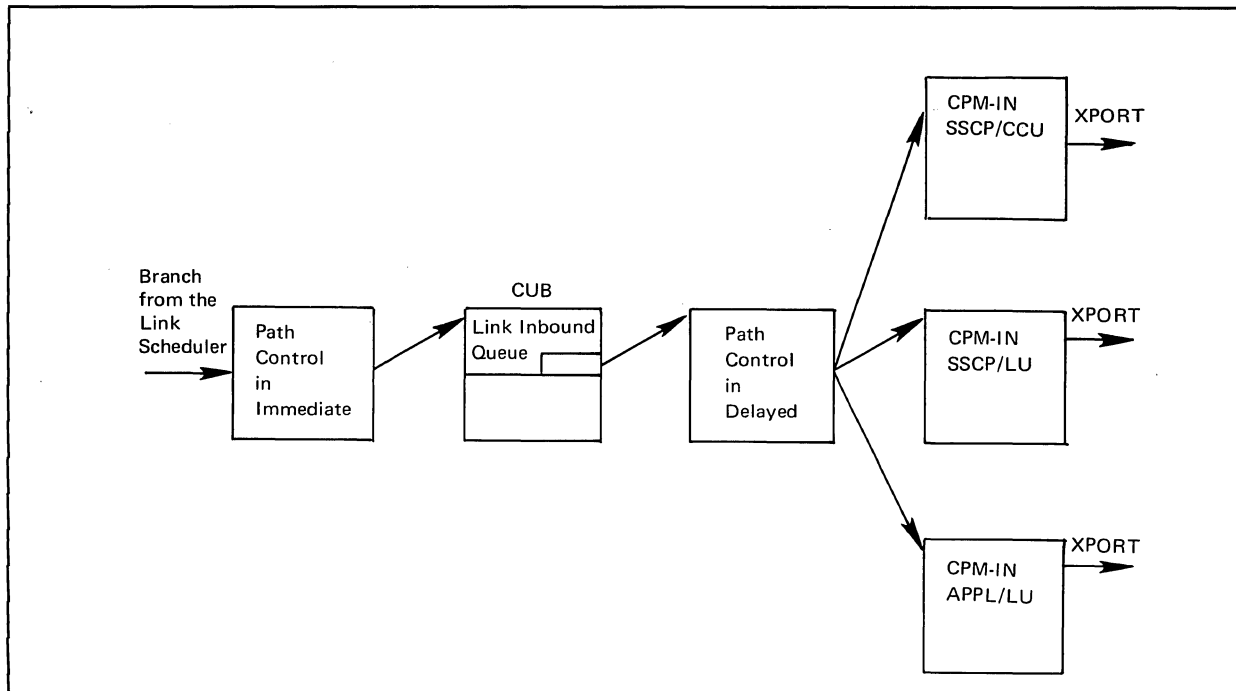


Figure 7.3 Boundary Network Node Inbound Path Flow

**Path Control In Immediate** When a PIU has been received on a link the link scheduler is initiated in level 3 by a PCI. The link scheduler branches to the level 3 'path control in immediate'. Path control validates the PIU. If received from a remote, the PIU must be a FID0 or FID1, and XPORTed to the channel intermediate queue of the COB or CHB. If received from a type 1 or type 2 PU, the PIU must be a FID2 or FID3 and must be placed on the common physical unit block (CUB) link inbound queue at CUB1ECB (offset X'00'). The ENQUE ACTV=YES triggers 'path control in delayed' in level 5. 'Path control in delayed' is triggered to convert a FID2 or FID3 PIU to FID1 and schedule the correct connection point manager in (CPM-IN).

**Path Control In Delayed** Conversion from FID2 or FID3 to FID1 format occurs within the first NCP buffer of the PIU. When the response to the poll is received, the communications control interrupt program (CICP) leases a buffer and sets up the appropriate offset for the type of device polled. A remote controller sends a FID0 or FID1 which requires an offset of X'0E'. A type 2 physical unit sends a FID2 which requires an offset of X'12'. A type 1 physical unit sends a FID3, which requires an offset of X'16'.

If the PIU received is a FID3, the conversion is to a FID2 and the FID2 is converted to a FID1. The conversion from a FID3 to a FID2 obtains some of the basic information to rebuild the FID2 from the control blocks, as well as from the FID3. The CUB is known, as the device was selected from the service order table for polling.

The FID2 TH2B0 is moved from X'12' to X'0E'; bit 2 is set to 0 (FID2 indicator) and bit 3 is set to 1 (FID1 indicator). TH2B1 is moved from X'13' to X'0F'.

The origin address field (OAF) at TH2OAF must be converted from a one-byte address to the two-byte network address. The specific origin (local device address) is obtained from the OAF. For nonswitched links, the local address is added to the CUB network address (CUB plus X'1C') to develop the OAF network address. The resulting address is verified using the resource vector table (RVT) to locate the LUB, and to verify the CUB address pointer at LUB plus X'20'.

For switched links, the local address is used as a displacement into the logical unit vector table (LUVT). The pointer to the LUVT is at CUB plus X'54'. The resulting address is verified through the RVT as in the nonswitched physical units.

The destination address field (DAF) at TH2DAF (X'14') is converted from a one-byte address to the two-byte network address. The only values are X'00' and X'01'. If the value is X'00', the FID2 is destined to SSCP. The SSCP address can be obtained from the physical services control block (PSB) at PSBDRPC (X'26'). If the value is X'01', the FID2 is destined to the application in session with the LU. The application network address is in the logical unit control block (LUB) at LUBNAPL (X'2A'). The DAF field is stored at TH1DAF (X'10') of the PIU.

The TH2SNF sequence number is moved to the TH1SNF (X'16' to X'14'). The PIU text count was accumulated as the PIU was received in U2TCNT (X'08'). This value is the total PIU length, from which the FID2 TH length is subtracted to calculate the RH/RU count placed in TH1DCF at X'16'. Once the conversion is complete, 'path control in delayed' calls one of three connection point manager in (CPM-IN) routines.

**Connection Point Manager In (CPM-IN)** There are three connection point manager in (CPM-IN) routines. 'Path control in delayed' determines which of the three CPM-IN routines to call, depending upon the session type (SSCP/PU, SSCP/LU, or APPL/LU).

#### *SSCP/PU CPM-IN*

When the SSCP/PU CPM-IN is called, the physical unit is checked for an established or pending session, and the PIU is checked for a request or response status. If the PIU field RH1B0 at X'18' has a value of 0xxx xxxx, the PIU is a request from the PU and the PIU is XPORTed to the channel intermediate queue on the COB or CHB. If the bit has a value of 1, the PIU is a response and must be checked for response indicators. If the RH1B0 at X'18' of the PIU has a value of x11x xxxx, the RU1B0 at X'1B' contains the request code of 'activate (or deactivate) physical'. The response may be a positive or negative response, based upon RH1B1 bit 3. A response requires that status be set. A positive response to 'activate physical' turns on 'session established' and turns off the 'processing session initiation' bit in the CUB CUBPSTAT byte. A 'deactivate physical' response turns off the 'session established' and 'processing session termination request' bits of the same byte. A negative response requires the bit indicating that a command is in process be set to 0. The response is XPORTed to the channel intermediate queue of the COB or CHB.

*SSCP/LU CPM-IN*

When the SSCP/LU CPM-IN is called, the logical unit is checked for an established or pending session at LUBCPSET (X'28'), and the PIU is checked for a request or response status. If the PIU field RH1B0 at X'18' has a value of 0xxx xxxx, the PIU is a request from the LU and the PIU is XPORTed to the channel intermediate queue on the COB or CHB. If the bit is a 1, the PIU is a response and must be checked for response indicators. If the RH1B0 at X'18' of the PIU has a value of x11x xxxx, the RU1B0 at X'1B' contains the request code of 'activate' or (deactivate) logical'. A positive response (RH1B1 bit 3 of 0) to an 'activate logical' requires that the 'processing activate' bit turned off and 'session established' bit turned on in LU field LUBCPSET at X'28'. A positive response to a 'deactivate logical' requires that the 'session established' and 'deactivate in progress' bits be turned off in LUBCPSET. A negative response requires the appropriate bit of 'activate (or deactivate) in progress' be turned off. The response is then XPORTed to the channel intermediate queue of the COB or CHB.

*APPL/LU CPM-IN*

When an APPL/LU CPM-IN is called, the logical unit is checked for an established or pending session at LUBAPSET (X'2C') and the PIU is checked for a request or response status. If the field RH1B0 at X'18' has a value of 0xxx xxxx, the PIU is a request from the LU. The PIU is XPORTed to the channel intermediate queue on the COB or CHB. If the bit is a 1, the PIU is a response and must be checked for response indicators. If the RH1B0 at X'18' of the PIU has a value of x11x xxxx, the RU1B0 at X'1B' contains the request code of 'bind', 'unbind', or 'start data traffic'. A positive response (RH1B1 bit 3 of 0) to a 'bind' requires the 'processing bind' bit turned off and the 'session established' bit turned on in LUBAPSET (X'2C'). A positive response to an 'unbind' requires the 'session established' and 'processing unbind' bits of LUBAPSET turned off. The 'start data traffic' response does not set bits in the LUB but is required by the device to verify that the response to the 'bind' was processed by SSCP.

The PIU is checked at RH1B1 for a 'pace' bit. If the pace bit is 1, the logical unit has responded to a pacing request sent to the logical unit by BNN CPM-OUT. The LUBASSET (X'2D') field of the LUB bit indicating 'awaiting pacing from the LU' is set to 0, the pace bit in the PIU is set to 0, the pacing counter (LUB plus X'30') is reset to 0, and BNN CPM-OUT is triggered to send another PIU to the device. The PIU is checked for FME or RRN response to be sent to the host. If the FME or RRN bits are not 1, the PIU is a 'stand-alone pacing response'; the buffer is returned to the NCP buffer pool, and CPM-IN exits.

If the FME or RRN bits are 1 and the PIU is to be sent to the host, the LUB field of LUBASSET is then checked for a 'pace required by host'. If this bit is 1, the pace bit in the RH1B1 field of the PIU is set to 1 and the LUB 'pace required by host' bit is set to 0.

With all response checking now completed, the response PIU is XPORTed to the channel intermediate queue of the COB or CHB.

**Summary of Physical Unit-to-Host Processing** Figure 7.3 illustrates the flow of a PIU through the boundary network node (BNN) for a PIU from the physical unit. There are three paths for inbound processing. All three

paths are the same until 'path control in delayed' enqueues the PIU to one of three connection point managers in (CPM-IN). The CPM-IN XPORTs the PIU to the channel intermediate queue of the CHB or COB.

The following sequence is followed for PIUs going to the host:

1. A PIU is passed from the link scheduler to 'path control in immediate' at level 3. 'Path control in immediate' checks to see if the PIU is from a type 1, type 2 or type 4 PU. A PIU from a type 4 physical unit is checked for FID0 or FID1 and XPORTed to the channel intermediate queue of the CHB or COB. A PIU from a type 1 or type 2 physical unit is enqueued to the link inbound queue of the CUB, triggering 'path control in delayed'.
2. 'Path control in delayed' is a dispatched level 5 task triggered by the PIU enqueued from 'path control in immediate'. The PIU is converted from FID2 or FID3 to FID1 and passed to one of the three connection point managers in (CPM-IN), depending upon the session type.
3. Connection Point Manager In (CPM-IN)

The three CPM-IN routines called from 'path control in delayed' are based on one of the three following types of session.

#### *SSCP/PU CPM-IN*

The SSCP/PU CPM-IN processes control responses to reflect correctly the session status of the SSCP/PU session, and XPORTs the PIU to the channel intermediate queue of the COB or CHB.

#### *SSCP/LU CPM-IN*

The SSCP/LU CPM-IN processes control responses to reflect correctly the status of the SSCP/LU session, and XPORTs the PIU to the channel intermediate queue of the COB or CHB.

#### *APPL/LU CPM-IN*

The APPL/LU CPM-IN processes control responses to reflect correctly the status of the APPL/LU session. Data PIU requests are sequence-checked. Data PIU responses are checked for pacing responses from the device. If a pacing response is found, the APPL/LU CPM-OUT is triggered for another PIU to be sent to the device. If the LUB bit indicating a host pacing response is required, CPM-IN sets the pacing bit in this response to the host. The PIU is XPORTed to the channel intermediate queue of the COB or CHB.

### **SDLC Switched Support**

The NCP generation of SDLC switched support includes defining a group of lines for dialout, dialin, or dialin/out operations. The macro instructions that define switched SDLC operations are GROUP, LINE, PU, and LUPOOL. The PU macro specifies the number of LUBs required during a connection by the operand of MAXLU. When a connection is made, the required LUBs are obtained as required from the pool of LUs defined by the LUPOOL macro.

The switched SDLC support generates an extension on the CUB at offset X'54' of four bytes. The leftmost byte provides a count of entries in the logical unit vector table (LUVT). The last 18 bits provide an address pointer to the the LUVT table.



The LUVT table contains a four-byte entry for each logical unit defined for this physical unit (PU MAXLU=count). Each entry contains the following:

- X'00' Local address of the logical unit
- X'01' LUVT flags: 1xxx xxxx last entry in table, x1xx xxxx entry in use
- X'00' LUB address pointer (last 18 bits)

This is the only table which is added for switched SDLC support.

The NCP provides three modes of operation for switched SDLC links:

1. Manual dial. The NCP enables the link and allows the operator to dial out.
2. Autodial. The NCP enables the link and performs the dial operation using the dial digits provided with the command.
3. Answer. The NCP enables the link and allows the remote stations to call in. The link remains in answer mode until the SSCP terminates it. If the SSCP issues a dial command to the link, the answer mode is temporarily suspended until the dialed connection is broken.

Logical unit control blocks (LUBs) are dynamically assigned to logical units when a switched connection is made. For this reason, a number of dummy LUBs must be allocated during NCP generation. Using the 'assign network address' command, the SSCP assigns LUBs from a pool to the physical unit which has a connection. When the SSCP breaks the connection, the SSCP issues a 'free network addresses' command to return the LUBs to the pool.

Additional commands from SSCP to NCP physical services provide the control of switched link support. The function management data indicator (x00x xxxx) in RH byte 0 and 02 in RU byte 1 indicate a request to physical configuration services. The commands for the control of switched links include the following:

- X'0E' Dial. Causes the NCP to initiate an outbound call on a switched SDLC link. For auto dial, the NCP performs the dial operation with the dial digits provided in the command. For manual dial, the NCP enables the link and the operator performs the dial operation.
- X'0F' Abandon connection. Causes the physical unit to terminate a switched connection.
- RU, byte 5 = X'04'. Changes dynamic fields in the logical unit control block (LUB) and completes initialization of the logical unit vector table (LUVT).
- RU, byte 5 = x'03'. Changes dynamic fields in the common physical unit block (CUB) which are associated with the specified physical unit.
- RU, byte 5 = x'02'. Associates a remote NCP's subarea with a particular SDLC link.
- X'16' Answer. Causes the NCP to put the specified link in answer mode. Answer mode enables the link to accept incoming calls.

- X'17' Abandon answer mode. Causes the NCP to discontinue answer mode on the specified link.
- X'18' Abandon dial. Causes the NCP to halt the dialing operation over the specified link.
- X'19' Assign network addresses. Assigns a set of network addresses to a specified physical unit (SDLC switched link only).
- X'1A' Free network addresses. Causes the NCP to free the network addresses that were assigned to a physical unit (SDLC switched link only).
- X'84' Off hook. Informs the SSCP that a physical connection has been established between the NCP and a physical unit. The PIU contains the station ID.

Appendix A provides the command sequence required to create the connections and sessions.

Figure 7.4 illustrates the command sequence and SDLC sequences of a switched connection.

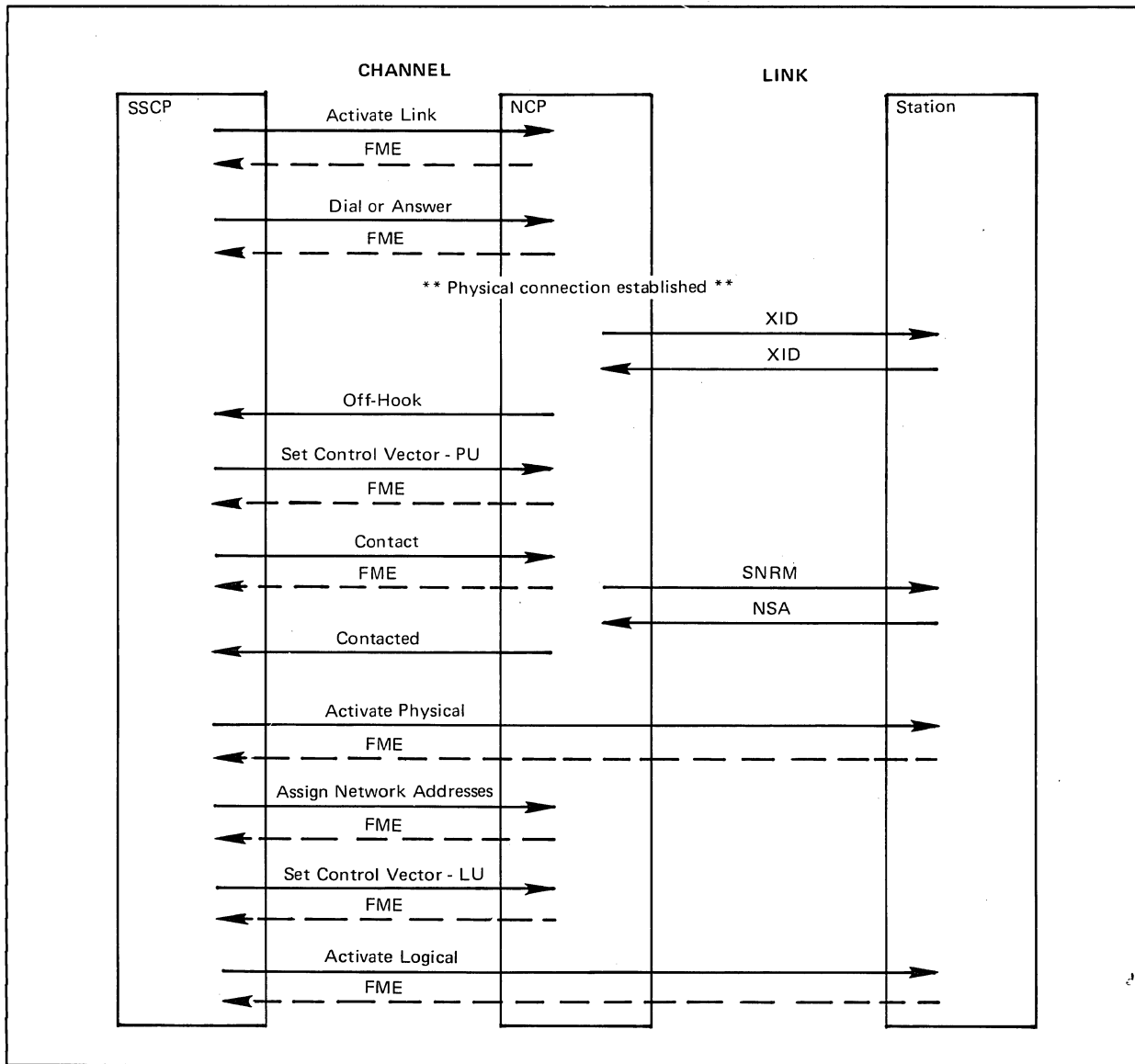


Figure 7.4. SNA and SDLC Switched Command Sequence

The switched SDLC link connection is broken by the following sequence of commands to terminate the connection:

1. The SSCP issues a 'deactivate logical' command for each of the logical units. This command terminates the SSCP/LU session.
2. The SSCP issues a 'free network addresses' command to release the assigned LUBs and return them to the LU pool.
3. A 'deactivate physical' command terminates the session between the SSCP and the physical unit. If the physical unit is a type 1 device, the NCP does not transmit the command to the device, but responds to the 'deactivate physical' command. Type 2 and type 4 devices receive the command and reply.

4. The 'disconnect' command causes the NCP to send a 'set disconnect response mode' (SDRM) SDLC command to the station. The station replies with an NSA and the connection is broken.
5. The 'abandon connection' command causes the NCP to disable the link and return it to 'on hook' status. If the link was previously in answer mode, the NCP reenables the link.

Figure 7.5 illustrates the network commands and SDLC sequences for breaking a switched SDLC connection.

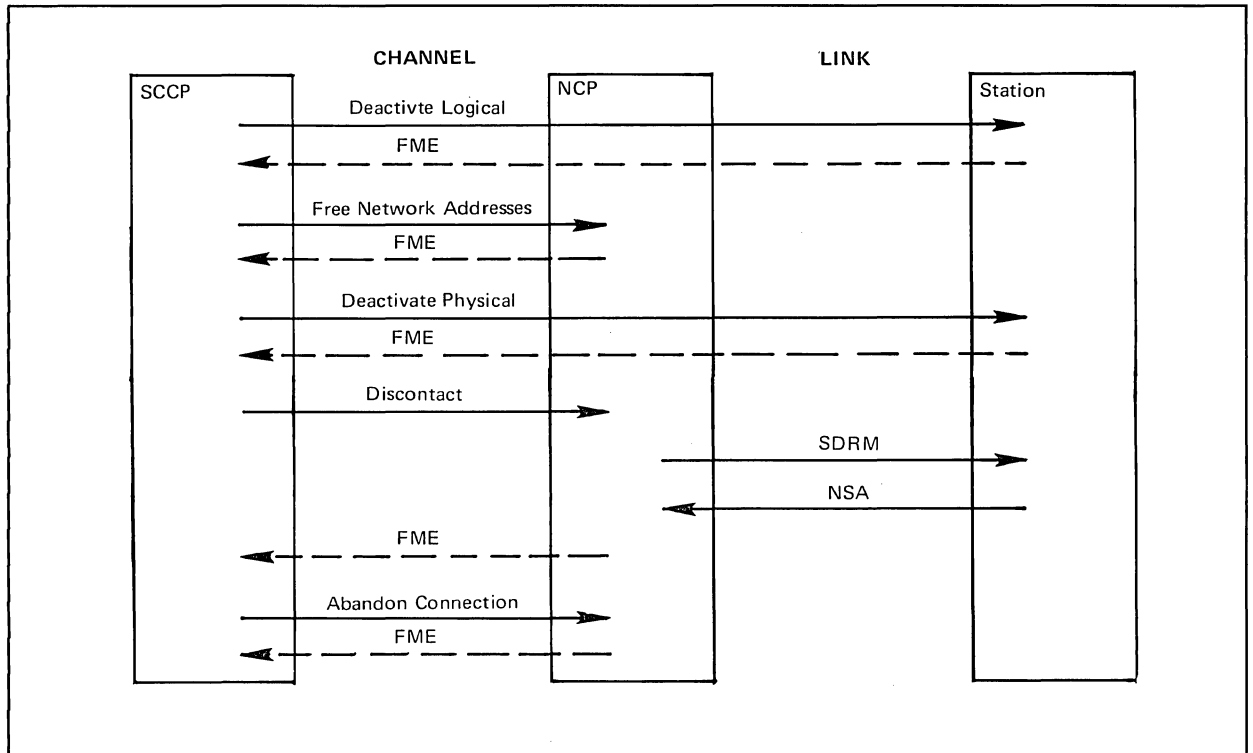


Figure 7.5. SNA and SDLC Commands to Terminate Switched Connections

### Boundary Network Node (BNN) Summary

All PIUs in a session involving an SDLC link, except for a local/remote link, are processed by BNN routines. These routines handle session control requests and responses, and convert PIUs to the required format. Data transfers in an application/logical unit session are processed by pacing routines. On output to a physical unit, the buffer requirements of the physical unit segments PIUs as required. The NCP performs sequence-number processing on PIUs to and from type 1 physical units.

The user definition of pacing is vital to system performance. VPACING schedules PIUs on a logical unit basis between the host and the NCP to avoid buffer depletion. PACING schedules PIUs on a logical unit basis between the NCP and the physical unit to avoid depleting physical unit buffers and having one logical unit lock out other logical units. VPACING logic requires a definition of PACING also. In order to operate correctly, VPACING requires a delay on the CPM-OUT queue created by PACING requests.

Segmenting breaks up PIUs when the length of a PIU exceeds MAXDATA. A first segment is TH, RH, and RU to full NCP buffers of equal to or less than MAXDATA size. A nonfirst segment is TH (copied from the first segment into a separate buffer) plus one full NCP buffer or a multiple of buffers of less than or equal size of MAXDATA. If PIUs of more than MAXDATA length will be received, the NCP buffer size should be selected to provide an efficient segment size.

Figure 7.6 illustrates the flow of PIUs through the NCP for CUB and LUB devices. The numbered text that follows identifies the components and processing:

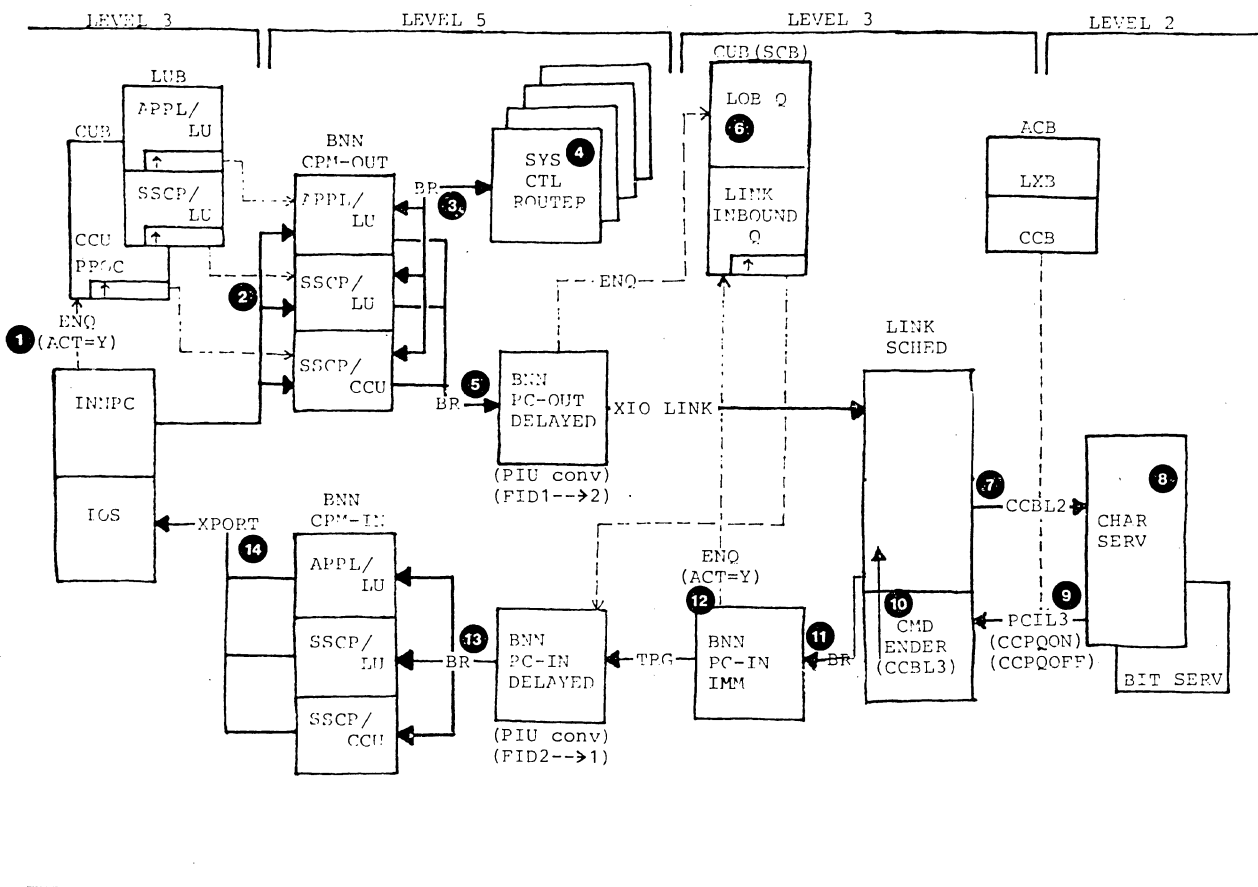


Figure 7.6. CUB and LUB PIU Processing

1. Channel IOS branches to 'path control out'. Using the DAF to access the SIT, SVT, and RVT, path control enqueues the PIU to a CUB or LUB.
2. The enqueueing triggers the BNN CPM-OUT.
3. If the PIU is a session control request, the system control router gets control via a branch.
4. The system control router selects the proper subroutine and returns.

5. BNN CPM-OUT processes the PIU and calls 'BNN path control out'.
6. The PIU (FID2) is placed on the link outbound queue (LOB) and XIO is issued to the link.
7. The link scheduler locates the PIU on the LOB, then sets up the CCBL2 and ICW.
8. CSP handles the 'transmit' or 'receive'.
9. When level 2 ends, level 2 sets up CCPQON/OFF and issues a PCI to level 3 to return.
10. The 'command ender' routine uses CCBL3 to continue level 3 link scheduler processing.
11. The link scheduler branches to 'BNN path control in immediate'.
12. 'Path control in immediate' enqueues the PIU to the link inbound queue on the CUB.
13. 'Path control in delayed' selects the proper CPM-IN, using the FID1 or FID2 origin to locate the CUB or LUB queue.
14. The CPM-IN processes the PIU and XPORTs the PIU to the channel queue to be sent to the host.

**Boundary Network Node  
Quiz**

Use the storage listing in Appendix C to answer the following problems. Do not check the answers in Appendix B until you have answered all of the questions.

1. Which CUBs have a pending SNRM?
2. Which CUBs are in session?
3. What are the SDLC address/polling characters of the CUBs in session?
4. What are the network addresses of the CUBs in session?
5. What are the addresses of the LUB control blocks of the CUB at X'18C1C'?
6. Do the LUBs in question 5 have an SSCP/LU session?
7. Do the LUBs in question 5 have an application/LU session?
8. Locate and write down the pacing values of the LUBs at X'183C0', X'183F4', and X'18428'.
9. What are the local addresses of the LUBs in question 8?
10. Using the formatted buffers in Appendix C, analyze the buffers at the following addresses:

X'1A7F0'

X'1A83C'

X'1A920' through X'1ACFC'

11. Using the formatted buffers in Appendix C, analyze the buffers at the following addresses:

X'1A628'

X'1A674'

X'1B040'

X'1ADE0'

X'1AE2C'

X'1B0D8'

X'1AE78'

X'1B254'

X'1B124'

X'1B170'

X'1B1BC'

X'1B2A0'

Criterion

If you missed more than two questions, you should review this section.

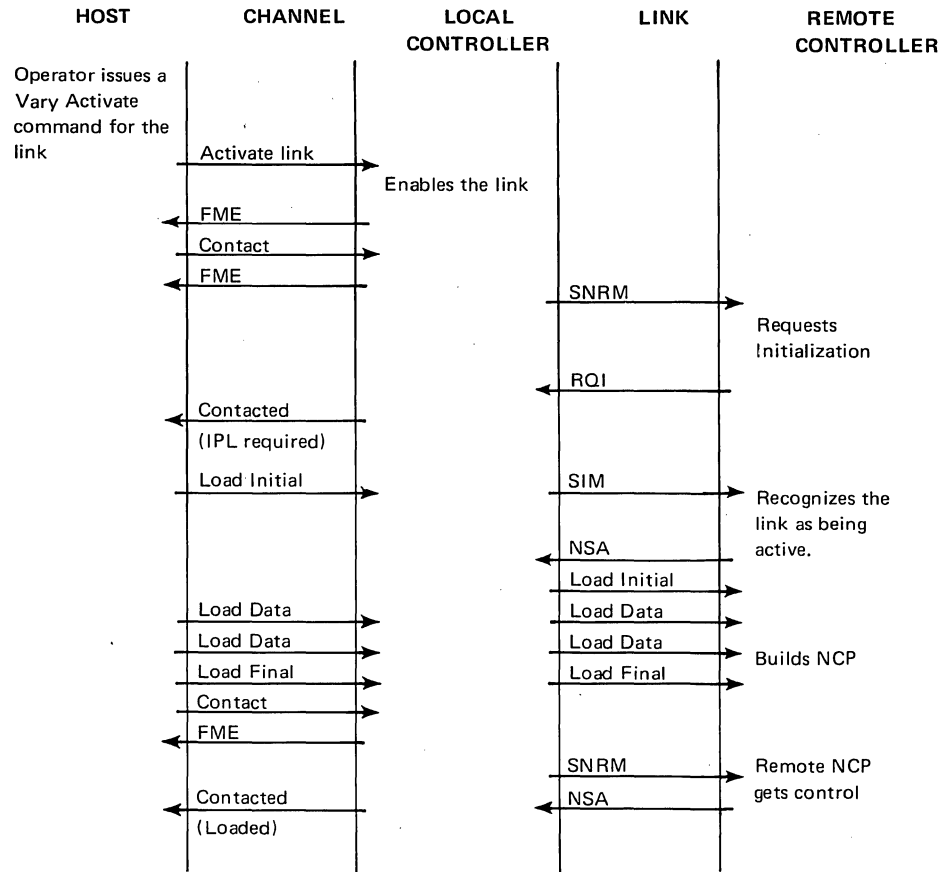
## Local/Remote Link

<b>Objective</b>	Upon completion of this topic, the student should be able to identify the local/remote link control block, the flow of data to activate, load, communicate, and closedown a remote NCP, and operands which affect performance.
<b>Activation of a Remote NCP</b>	At generation time, a PU macro is used to define a remote (link-attached) NCP to a local (channel-attached) NCP. The path to a remote requires the same activation as type 1 and type 2 physical units. Once the link is active, 'path control out' XPORT's an outbound PIU to the PU generated station control block (SCB) by queuing the PIU to the SCB link outbound queue. Inbound PIUs are passed from the link scheduler to 'path control in immediate' at level 3. When 'path control in immediate' determines that the PIUs are from a remote to the host, the PIU is XPORTed to the channel intermediate queue of the CHB or COB.
<b>Station Control Block (SCB) PU Type 4</b>	<p>If you compare the station control block (SCB) PU type 4 with the CUB PU type 1 and type 2, the fields are seen to be identical for the length of the type 4 SCB. The type 1 and type 2 CUB has an extension added for a QCB for outbound PIU processing. PIUs with the remote subarea identification are not processed but XPORTed by 'path control out' directly to the SCB link outbound queue at SCBLOBH (X'10). PIUs for the host are XPORTed directly to the channel intermediate queue of the CHB or COB. PIUs directed to the remote are enqueued to the SCB link inbound queue at SCB offset X'00'. Some of the main SCB fields are as follows:</p> <ul style="list-style-type: none"><li>X'00' Shifted address of the first element queued</li><li>X'02' Shifted address of the last element queued</li><li>X'08' SSCP/SCB CPM-IN task address</li><li>X'10' Shifted address of the first element on the link outbound queue</li><li>X'12' Shifted address of the last element on the link outbound queue</li><li>X'14' Shifted address of the first element on the link outstanding queue. One to seven PIUs are transmitted on the link, but not acknowledged.</li><li>X'16' Shifted address of the last element on the link outstanding queue</li><li>X'18' SDLC addressing character of remote</li><li>X'18' Address of link control block (LKB)</li><li>X'1C' Network address of resource (local subarea and element address). Remote subarea and element address is in the SVT.</li><li>X'1E' Service seeking and contact poll commands</li><li>X'20' Remote status</li><li>X'22' Transmission counter</li><li>X'24' Address of physical services</li></ul>



**Initializing the Remote**

PIUs from the host can be directed only to the remote subarea specified in the PU macro SUBAREA operand. A local type 4 PU station control block (SCB) has no queue or task to process a PIU. The format of the type 1 or type 2 CUB of basically the same format has an extension input QCB for queuing PIUs from the host. All PIUs which are for a remote or which refer to a remote are directed to the local NCP physical services or are queued directly to the SCB link outbound queue for processing by the link scheduler.



**Figure 8.1 Command Sequence to Activate a Remote**

Before PIUs can be directed to a remote, the link must be activated, contact established, and the remote loaded. Figure 8.1 illustrates the command sequence which is required between SSCP and the local NCP physical services, and between the NCP and the remote.

The sequence of commands from SSCP to physical services is identical to the type 1 or type 2 PU. The response from the remote may be either a 'request initialization' (RQI) or the 'nonsequenced acknowledge' (NSA) of the type 1 or type 2 PU. The contacted command from physical services in response to the RQI informs SSCP that the remote requires loading; the NSA specifies a warm start capability.

In response to an RQI, the SSCP obtains the remote load module and sends the load initial, load data, load final, and a second contact command. Physical services schedules a 'set initialization mode' (SIM) command and receives a 'nonsequenced acknowledge. (NSA)'. The 'load initial', 'load data', and 'load final' are transmitted to the remote. Physical services acknowledges receipt of the 'contact' by sending a 'set normal response mode' (SNRM) to the remote and a FME response to the SSCP, to acknowledge that the 'contact' command was received. Now that the remote is operational, it can reply to the SNRM with an NSA. The NSA response results in a contacted command being sent to the SSCP.

All of the responses from the remote are processed by the SSCP/PU connection point manager in, with a task address at SCBTSKEP (SCB plus X'08'). All responses from a remote directed to the host are XPORTed directly to the channel queue. Some replies and status are enqueued by link control to the SCB.

Now that the remote is loaded, the same SSCP and application sessions are established in the remote as are established in the local. An SSCP/PSB 'activate physical', 'start data traffic', 'set state vector', 'activate link', and other session command sequences must be established between the SSCP and remote elements.

#### **Host to Remote PIU Processing**

PIUs from the host are received by channel IOS and passed to 'path control out'. 'Path control out' at level 3 validates the FID0 or FID1, verifies that the local/remote link is active, and XPORTs the PIU to the SCB link outbound queue (SCB plus X'10). The link scheduler locates and transmits the PIU to the remote.

#### **Remote to Host PIU Processing**

The PIUs received on a link are passed at level 3 from the link scheduler to 'path control in immediate'. 'Path control in immediate' has a pointer to the control block which provided the poll request. The station type is at the control block address plus X'24'. If the station is a type 1 or type 2 PU, the PIU is enqueued to the BNN connection point manager in (CPM-IN) queue. If the device is a type 4 PU SCB and the PIU is normal link traffic, the PIU is validated as FID0 or FID1 and XPORTed to the channel intermediate queue of the CHB or COB. If the remote had a failure, the SCB connection point manager in (CPM-IN) is triggered for error recovery.

#### **Remote NCP**

The remote NCP has basically the same facilities as the local NCP. The remote controller does not have a channel adapter and therefore does not have the channel adapter IOS. The link is serviced by the link scheduler and outbound PIUs are passed to 'path control out'. 'Path control out' enqueues the PIUs to physical services, BNN CPM-OUT, or the BSC/SS processor. The same session control sequence is required among SSCP, applications and remote elements as was required in the local.

**Loading a Remote NCP** The remote 3704 or 3705 controller includes a diskette which contains programs used to test the remote hardware and to load and dump the remote NCP. The diskette is prewritten with the configuration data set (CDS) file. This file must be configured before the remote controller is used. The CDS defines the link to be monitored for communication and the pointers to the diskette data sets.

Loading and dumping of a remote NCP is performed by the load/dump program that resides on the diskette. This program is loaded into the high 8K of storage when one of the following occurs:

- Power is turned on
- The load pushbutton on the remote console is pressed
- The remote NCP terminates abnormally
- An error occurred during a load or dump
- Host issues a load or dump network command

Before loading the load/dump program into high storage, the NCP checks to see if the high 8K of storage should be saved and written on the disk. Also, checks are made to see if any diagnostics or initial tests are to be executed. Figure 8.2 illustrates the format of the remote disk files.

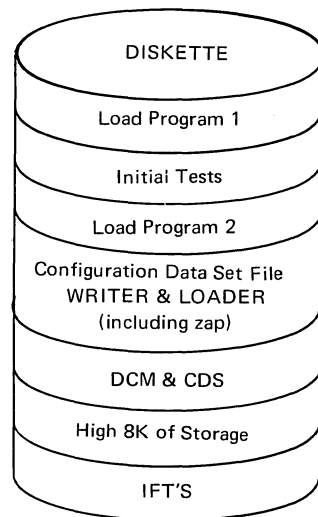


Figure 8.2 Remote Disk Format

When the load/dump program is loaded into storage, control is passed to program level 1. External register X'6B' contains IPL flags; general register 6 of program level 3 contains a line address for the load/dump program to monitor. This line must have been defined in the remote configuration data set (CDS) file. A byte in the CDS file entry determines if this line is to be used for loading and dumping of the remote NCP. This check prevents unauthorized loading and dumping of a remote controller.

After the load/dump program is initialized, the program executes in levels 2 and 3 performing link scheduler and SDLC functions. Level 1 is reentered when control is passed to the remote NCP after it is loaded.

If a 'load' is to be performed, after the link is activated and the remote contacted, the host sends PIUs containing the remote version of the NCP to the local NCP. Physical services in the local determine that the PIU is a function management request and call the function manager. The FM router uses the

RU of the PIU to select the remote PIU decoder routine from the appropriate FM table.

The remote PIU decoder (CSDKRPD) determines that the request is a 'load initial'. It sets up the station control block for the remote and sends a 'set initialization mode' (SIM) SDLC command to the remote. The load/dump program in the remote controller responds with the 'nonsequenced acknowledgement' (NSA). The NSA ends the run command in the local (CSDKRNT) and passes control to the SIM terminator (CSDKRST). The SIM terminator checks that an NSA was received and issues an XIO LINK to send the load initial PIU to the remote controller. The 'load data' and 'load final' commands that follow are all processed through the local NCP's physical services to the remote PIU decoder (CSDKRPD), which issues XIO LINK commands and sends them to the remote controller. Figure 8.1 illustrates the sequence of commands for loading a remote NCP.

After the load final PIU is sent, a contact is sent by the host SSCP to the local NCP. The local NCP issues a 'contact poll' to the remote controller (send SNRM). On receiving the SNRM, the remote load/dump program passes control to the remote NCP which has been loaded. The remote NCP responds with an NSA to the local NCP. The local NCP sends a contacted response PIU back to the SSCP indicating that the remote is loaded.

**Dumping a Remote NCP** If a printout of remote storage is to be made, the SSCP sends a dump request to the local NCP physical services, which forwards the 'dump initial', 'dump data', and 'dump final' network commands to the remote controller. Figure 8.3 illustrates the command sequences for a dump.

The processing of the dump commands is similar to the load process using the remote PIU decoder (CSDKRPD) and the remote SIM terminator (CSDKRST). The dump data requests are sent to the remote load/dump program which returns the requested data area. The local NCP returns the dump data PIUs to the SSCP for writing to a host disk dump file. After the 'dump final' command is sent to the remote, a 'discontact' command is sent to the local NCP to stop normal polling of the remote controller.

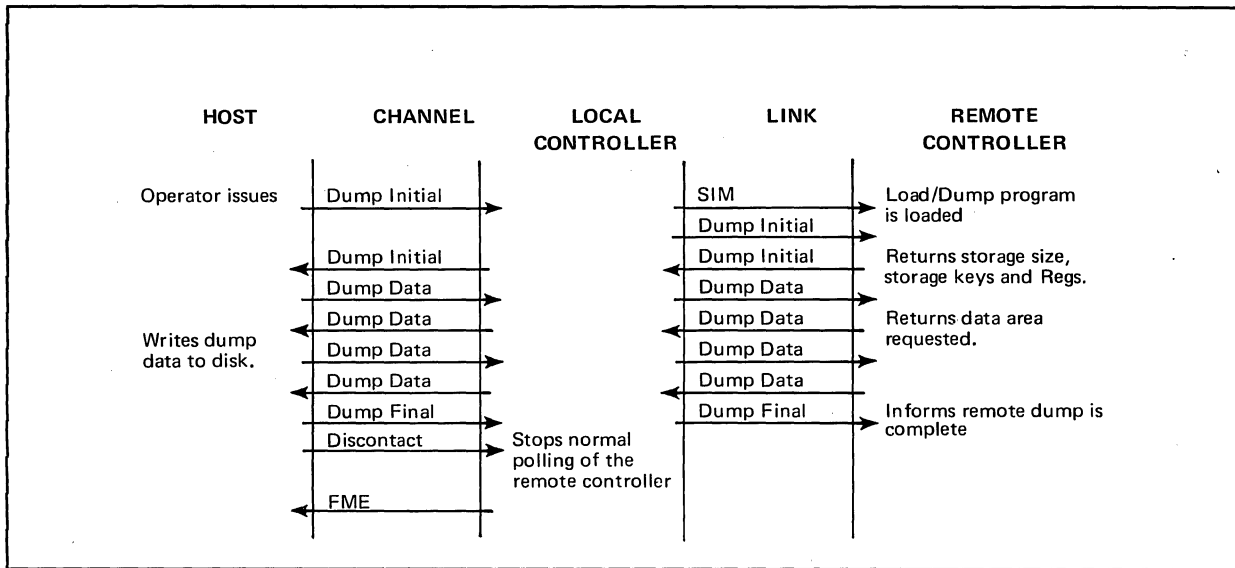


Figure 8.3 Command Sequence to Dump a Remote

**Link Failure to a Remote** If a load is to be performed due to a permanent link failure, the SSCP activates the alternate link. Once the alternate link has been activated, the load and dump process is the same as described above. Figure 8.4 illustrates the command sequence for a recovery from a link failure and loading of a remote NCP.

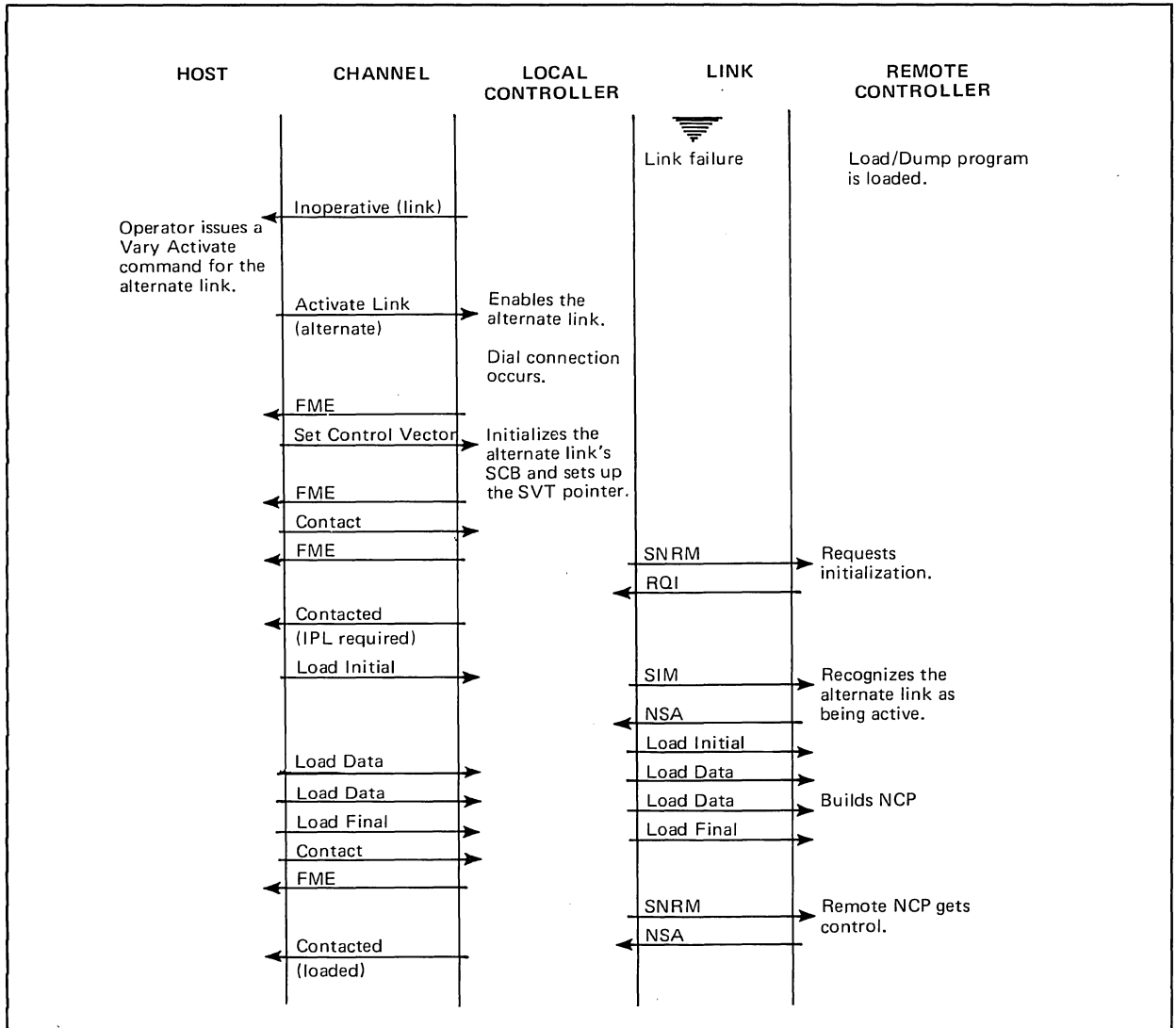


Figure 8.4 Command Sequence for Alternate Link

### Remote Power Off

The SSCP may power off a remote controller by issuing a 'remote power off' command to the local NCP physical services. Function management remote PIU decoder (CSDKRPD) sets up the SCB for the remote to send a SIM to the remote NCP. Upon receiving the SIM, the remote NCP link scheduler causes an abend condition to load the load/dump program. Figure 8.5 illustrates the command sequence.

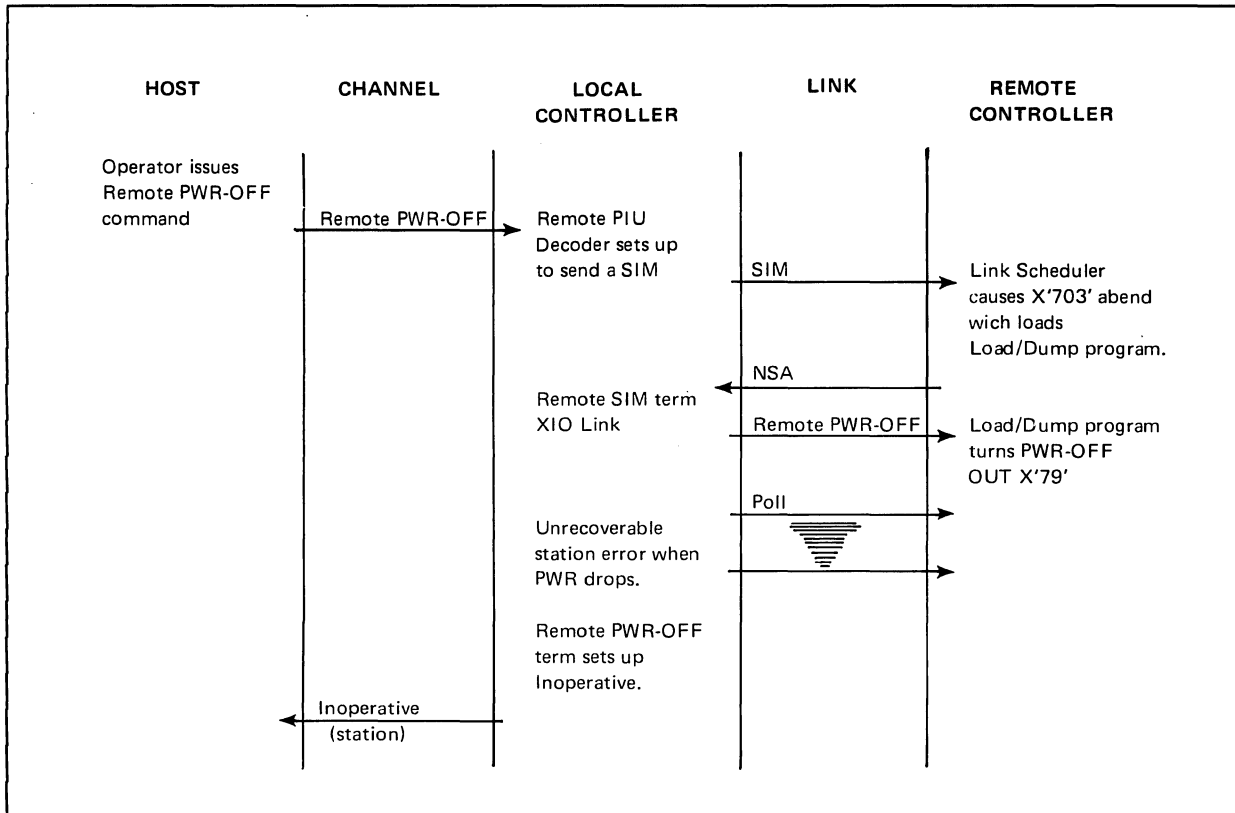


Figure 8.5 Command Sequence for Remote Power Off

The load/dump program responds to the local NCP with a 'nonsequenced acknowledgment' (NSA), causing the remote SIM terminator in the local to get control. The remote SIM terminator issues an XIO LINK to send the 'remote power off' command to the remote controller. The load/dump program checks for a 'remote power off' command and, finding it, issues an OUT X'79' instruction to power off the controller.

**Local/Remote Link Summary**

The type 4 PU station control block (SCB) represents the remote controller on a link. Control commands required to enable, load, dump, or power off a remote controller are all directed through physical services in the local NCP. Once the remote is active, the sessions must be established for the remote physical services, CUBs and LUBs as for the local. Session commands and data PIUs directed to the remote are XPORTed by 'path control out' in the local to the link outbound queue of the remote in level 3. PIUs from the remote are validated by 'path control in immediate' and XPORTed to the channel intermediate queue on the COB or CHB in level 3.

**Local/Remote Link Quiz**

Answer the following questions. Do not refer to the answers in Appendix B until you have finished the quiz.

1. What type of physical unit defines a remote/local link?
2. What type of control block is generated for a remote/local link?
3. What are the two possible SDLC responses to an SNRM (other than a timeout)?

Criterion

If you made any errors, you should review this section.





# Data Link Control

**Objective** Upon completion of this topic, the student should be able to identify the control blocks, flow of data and operands which affect performance of link operations.

**What is Data Link Control** Data link control (DLC) provides the scheduling and control for link operations. Data link control is made up of three main parts:

1. Communications interrupt control program (CICP)
2. Link scheduler
3. Synchronous data link control (SDLC)

The CICP interfaces with the background tasks and drives the link scheduler. The link scheduler schedules, initiates, and ends all SDLC link operations. The SDLC transfers the data between the data buffers and the hardware scanner.

This topic covers data link control in relation to a full-duplex (FDX) link.

The flow of control from initiation of the link scheduler to termination of the link scheduler involves the components covered in the previous sections. The physical services process the commands to 'activate link' and 'contact' the physical devices on the line. The 'activate link' initiates the link scheduler. As each 'contact' completes, the run terminator gets control, but the link scheduler is reinitiated for a new run command. After the contact commands the session initiation commands to physical units must be sent on the link to establish the session with the physical units. The session commands and responses are processed as data by the data link control support.

The first pass through the service order table (SOT) issues a 'contact poll' (from a 'contact' command) for each physical device. After the first pass the run terminator reissues the XIO RUN, which remains in effect until a permanent error or deactivate link command.

Once the link is operative, the service order table is used to locate a link outbound queue of a CUB or SCB. If no element is queued and the device session is established, the 'receive' leg is scheduled with a poll. With the 'receive' leg now committed, the send ACB can search for a service order table entry with PIU to send to a station other than to the polled station.

The first link outbound queue (in service order table sequence) sends one to seven PIUs depending on several factors. If there is only one PIU, only one is sent before going to the next SOT entry. In addition, there are two operands on the CUB or SCB which qualify the number of PIUs sent on a link. MAX-OUT specifies that one to seven frames may be sent before an SDLC response is required. PASSLIM specifies the maximum number of frames sent before going to the next entry in the SOT. The type 4 SCB PASSLIM may be set to 254 frames maximum on a full duplex link. On a full duplex link, after each frame the 'receive' link is checked for a busy condition. If the 'receive' leg is released, a poll is sent between frames to a device other than the one currently being transmitted to.

The LINE macro SERVLIM operand (default of 4) specifies the number of passes through the service order table for polling and addressing before special handling is scheduled. Special handling is a search for a command (contact, discontact, deactivate link, etc.). If one is found, one command is attempted before returning to normal data traffic scheduling.

Any pass through the service order table without a PIU to send or with no incoming traffic from polling causes special handling to be scheduled immediately.

The PAUSE operand defines a time value for one pass through the service order table. If the time value has expired before the end of the service order table is reached, normal processing continues. If the time value has not expired, the link scheduler suspends service on the link until (1) the time expires or (2) a PIU is enqueued to a CUB to be transmitted on this link. If the link scheduler is triggered for sending a PIU, the PIU is sent, but no polling occurs until the time has expired.

Each line is initially disabled for interrupts to level 2. When the line is enabled from level 3, the CCB is primed on each interrupt with the address of the next character service routine at CCB plus X'00' (CCBL2). When the sequence at level 2 is complete, a PCI to level 3 gives control to the routine specified at CCB plus X'4C' (CCBL3). The level 3 processing passes input to 'path control in immediate' and schedules the next poll. Output PIUs are retained on the link outstanding queue until an SDLC response confirms a good transmission; then the buffers are released.

#### Data Link Control (DLC) Control Blocks

There are several control blocks generated from a LINE macro definition at NCP generation. In addition to the LINE macro, the GROUP macro- and SERVICE macro-generated control blocks are used by data link control. The following control blocks and key fields are of special interest:

**Line Group Table (LGT)** The line group table (LGT) is generated by the GROUP macro. SDLC groups generate a shorter LGT (X'17' bytes) than the BSC/SS groups. Some of the primary fields are as follows:

- X'00' Line group type. An X'8C' value is an SDLC primary station. An X'8E' indicates an SDLC secondary system.
- X'0C' LCD/PCF transmit initial value
- X'0D' LCD/PCF receive initial value
- X'10' Command decode vector table address

**Link Control Block (LKB)** The link control block (LKB) contains fields for scheduling link operations and for maintaining link status information. The LKB is generated for each link from the LINE macro. The resource vector table (RVT) contains a pointer to the LKB. Some of the primary fields are as follows:

- X'00' Shifted address to first element queued.
- X'02' Shifted address to last element queued.
- X'08' Enable terminator task address at generation time. When the link is enabled by XIO LINK, the address is replaced by the address

of the run terminator. This task address is the only SDLC task pointer which changes from the generated address.

- X'10' Network address of the link. This network address is used at PIU plus X1E' for 'activate link' and 'deactivate link' commands processed by physical services.
- X'12' Status of link. Bit 0 indicates an 'active link', bit 1 an 'activate link in progress', bit 2 indicates indicates 'deactivate link in progress'.
- X'13' Link type. Specifies this link is leased, switched, one or more type 1 PUs, one or more type 2 PUs, one or more type 4 PUs, and whether the link is primary or secondary.
- X'24' Address of adapter control block (ACB).

**Adapter Control Block (ACB)** The adapter control block (ACB) is generated by a LINE macro. The ACB contains line control information and the status of input or output operations for SDLC links. At X'24' the link control block (LKB) has an address pointer to the only ACB for a half-duplex link or to the 'receive' ACB for a full-duplex link. At ACB plus X'22' is the address of the 'transmit' ACB for a full-duplex line. The ACB can be located from the line vector table (LNVT) using the line address. The ACB contains the link XIO block (LXB) from X'00' to X'23' and the character control block (CCB) from X'24' to X'5C'. The fields are covered under the LXB and CCB which follow.

**Link XIO Block (LXB)** The link XIO block (LXB) is generated as the first X'24' bytes of the adapter control block and contains the status of link operations. Some of the primary fields are as follows:

- X'00' Immediate control command flags
- X'01' I/O commands. The only valid commands are X'8D' (enable), X'30' (run SDLC link), and X'83' (disable), X'8F' (dial).
- X'06' Command ending status and completion code status
- X'0E' Shifted address of first buffer of data received
- X'10' Shifted address of final buffer of data received
- X'14' Pass count
- X'18' Pointer to link control block
- X'1A' Received block size (number of data characters stored)
- X'1C' Pointer to current service order table (SOT) for 'receive'
- X'1C' 'Contact poll' command executed (see X'20')
- X'1E' Duplex link pointer to 'receive' leg ('transmit' leg ACB only)
- X'20' Pointer to current service order table (SOT) for 'transmit'.
- X'20' Offset into SOT of current 'contact poll' device (see X'1C')
- X'22' Duplex link pointer to 'transmit' leg ('receive' leg ACB only)

**Character Control Block (CCB)** The character control block (CCB) is

generated as bytes X'24' through X'5C' of an adapter control block and contains line control operations. Some of the primary fields as offsets from the ACB are as follows:

- X'24' Address of current level 2 character service routine
- X'26' Pointer to character service state address table
- X'30' Line address for type 2 scanner. Bit control block (BCB) address if type 1 scanner.
- X'34' Pointer to the line group table (LGT)
- X'3C' Address of current data byte being sent or received
- X'40' Address of current buffer
- X'4C' Address of next level 3 routine to be executed
- X'5B' Address expected in response (SDLC address/poll character)

**Line Vector Table (LNVT)** The line vector table (LNVT) is generated from the CSB macro and initialized by the LINE macro. A different format is created for type 1 than for type 2 or 3 scanners.

*Type 1 Line Vector Table (LNVT)*

The type 1 line vector table (LNVT) generates an entry of X'10' bytes for each possible line address for a type 1 scanner. A 3705 generates 64 entries from address X'800' to X'BFF'. A 3704 generates 32 entries starting at X'800'. A line address of X'00' to X'3F' is multiplied by X'10', and added to X'800' to calculate the BCB address. The BCB is used by the level 2 routines in program support for the interface control word (ICW) used by a type 2 scanner. An undefined line address has the rightmost bit set to 1 in the first halfword. If the bit is 0, the first halfword points to the adapter control block (ACB).

*Type 2 or Type 3 Line Vector Table (LNVT)*

The type 2 or type 3 line vector table (LNVT) generates a two-byte entry for each possible line address (maximum=96) for each defined scanner (CSB macro). A single scanner generates 96 halfword entries from X'800' to X'8BF'. Each subsequent CSB macro reserves an additional 96 halfwords. An undefined line address has the rightmost bit set to 1 in a halfword entry. A bit of 0 indicates that the halfword contains the address of the adapter control block (ACB) for this line. The first X'20' entries from X'800' to X'83F' are always invalid because the first scanner has only 64 lines starting at line address X'20'.

If a line address is known for a type 2 or type 3 scanner, the LNVT entry can be calculated by multiplying the line address by 2 and adding X'800'. The LNVT allows the level 2 routines to find the ACB (and CCB) for a line when only the line address is known.

**Bit Control Block (BCB)** The bit control block (BCB) is a X'10' byte control block which provides the same facility for a type 1 scanner as the ICW hardware provides for a type 2 scanner. A BCB is generated for each LINE macro defined for a type 1 scanner, and is placed as a valid entry in the type 1 line vector table (LNVT).

**Service Order Table (SOT)** The service order table (SOT) is generated by a SERVICE macro to identify the sequence of service to devices on a line. A pointer in the link XIO control block (LXB) at X'1C' points to the current entry in the table for service. All SDLC links, except the link of a local/remote or SDLC-switched, have a service order table. The table contains the following entries:

- X'00' Halfword of zero
- X'02' Maximum number of entries
- X'03' Number of entries in use
- X'xx' Four-byte entries with the leftmost 14 bits a negative offset to SOT Header. The rightmost 18 bits are the address of a SCB.
- X'xx' Last four-byte entry has an offset and address of zero.

### Link Scheduler Initiation

At the termination of the 'activate link' process, the enable terminator receives control and issues the XIO LINK macro with the run command stored in the LXBCMAND field of the LXB. The XIO macro causes an SVC level 4 interrupt into the supervisor. The supervisor uses the SVC code to vector into the branch table for a pointer to the CICP at entry CXECMDCO. The CICP passes control to level 3 via a PCI level 3 interrupt. Level 3 is used to eliminate any interference while setting up to start the command.

The CICP running in level 3 checks to see if the link is busy by checking the receive-CCB control field (CCBCTL) phase bits for 00. Finding the link not busy, CICP zeros out the status fields in the LXB. No check is made to see whether command initialization should be delayed. If no delay is required, the receive-CCB is checked for any outstanding status.

Next, the transmit-CCB is checked for any outstanding status. With no outstanding status on either leg, the link's PCF field is set to zero to prevent any level 2 interrupts on this line from changing any fields that will be set up now. CICP vectors into the command decode vector table, using the LGTCMD pointer from the line group table (LGT) and the command from the LXB. The pointer at the vector is loaded into the instruction address register (IAR), causing a direct branch to the link scheduler at entry point CXELNCSI. The entry point is the 'run' command initialization entry into the link scheduler. Here the phase bits (CCBCTL) are set to indicate command active, then a branch is taken to the scheduler to schedule run command activity.

When scheduling run command activity, the link scheduler decides whether to schedule a poll or a data transmission. The first test determines whether the 'transmit' leg of the link is busy. If not, the 'receive' leg is checked to see whether it is busy. With both legs of the link idle, the scheduler branches to the poll subroutine to schedule a poll operation. The poll operation is started by scanning the service order table (SOT) for a station control block (SCB) or common physical unit block (CUB) to poll. The scheduler first checks the service-seeking control flags (SCBSSCP) and the service-seeking output control flags (SCBOCF) to be sure that this entry has not already been polled or that a second level error recovery program is not in progress. If the station

has not been polled and there is no second level error recovery in progress, the scheduler proceeds to poll the station.

Before the actual transmission of the poll frame, a test is made for the station type. Is the station a type 1, type 2 or type 4 physical unit? Type is checked so that the 'receive' buffer used to store the response can be set up properly for the type of FID. A branch is then taken to the 'receive initialization' subroutine (RCVINIT) to set up the 'receive' leg to handle the response from polling. This routine prepares the 'receive' leg to monitor for flags, then returns to the scheduler. The scheduler sets up the 'transmit' leg to send an 'RR' poll command (CCBCFLD). The CCB, if not already transmitting continuous flags, is set up to transmit a flag character. Returning from the transmit initialization subroutine, the scheduler sets the data length field in the CCB (CCBCHAR) to zero for the poll, and exits from the program level.

The SDLC character service program sends a flag byte on the link. The program also prepares the CCBL2 pointer to send the address field from the CCB (CCBAFLD) at the next level 2 interrupt. When the complete poll frame has been sent, the scanner is set up to transmit continuous flags until the link scheduler finds the next service order table (SOT) entry that can be polled. The ACB is then queued to the ACB queue and a PCI level 3 interrupt is issued. The PCI level 3 interrupt causes the link scheduler to get control again, via the CCBL3 pointer, to poll the next entry in the service order table (SOT).

#### **XIO LINK to the Link Scheduler**

The XIO LINK macro is used to put PIUs on the link outbound queue (LOB) to be transmitted down the link. The XIO LINK macro stores the pointer to the PIU in the LOB and checks for an active 'run' command. With a 'run' command already active, XIO LINK does not have to trigger the link scheduler. During its normal scan, the link scheduler finds the PIU on the LOB and sends it down the link.

Entry to the link scheduler is at CSELNKX for normal scan. Before sending the PIU, the link scheduler checks to see if the 'receive' leg is busy as a result of the last poll. If the leg is busy, the link scheduler tries to select a CUB or SCB with data on its LOB. The current service order table (SOT) select pointer from the 'transmit' leg (LXBSEL) is used to get the station's SOT pointer. A test of the station's output control flags (SCBOCF) is made to see if the station is ready and data is waiting. If the station is not ready, the link scheduler advances to the next SOT select entry. With the station ready the link scheduler branches to the SENDPIU subroutine.

The SENDPIU subroutine first checks the basic link unit (BLU) outstanding count (SCBOCL) defined by the MAXOUT operand and the pass count (CCBPASCT) defined by the PASSLIM operand. If the counts have been exceeded, SENDPIU returns to the calling routine (SELECT). SELECT increments the select pointer and continues to the next SOT entry except for a CUB or SCB MAXOUT condition. A local/remote link SOT pointer is not incremented until the PASSLIM operand value is reached. If the counts have not been exceeded, the PIU is sent.

SENDPIU increments the BLU outstanding count, takes the PIU off the LOB queue and puts it on the link outstanding queue (LOS). Next an 'I' format BLU command is built and passed to the XMTINIT subroutine along with the

ending process pointer (CSELNKX). A branch is taken to the XMTINIT subroutine to initiate the transmission. The XMTINIT subroutine stores the ending processor address in the CCBL3 field and the BLU command in the CCBCFLD.

Level 2 interrupts are now disabled and a test is made to see if flags are already being transmitted. If so, XMTINIT loads the CCBL2 field with the address to the SDLC send address routine (CSBDLXZ). Level 2 interrupts are enabled again and a 'transmit' time-out is started. XMTINIT now returns to SENDPIU to complete the setup of the CCB for transmission. In the CCB, SENDPIU stores the character count (CCBCHAR), the pointer to the current buffer (CCBSTART), and the pointer to the first data character (CCBDATA). SENDPIU returns to the calling routine (SELECT). SELECT stores the SOT pointer in the LXB (LXBSEL) and EXITS from the program level.

The SDLC character-service routines take over to transmit the PIU on the link. The link scheduler subroutine (XMTINIT) previously setup the CCBL2 pointer to point to the 'transmit address' routine (CSBDLXA). When the scanner hardware finishes sending a flag character, a level 2 interrupt is generated to the 'transmit address' routine. This routine initializes the BCC field (CCBBCC), then passes the address field (CCBAFLD) and the next CCBL2 pointer (CXBDIXC) to the BCC accumulation routine. The BCC accumulation routine sends the address to the scanner, accumulates the BCC character, stores the CCBL2 pointer passed to it in CCBL2, and then EXITS from the program level.

The next level 2 interrupt is to the 'transmit control field' routine (CXBDLXC). This routine sends the control character from CCBCFLD and tests the character count (CCBCHAR) for zero. If the count is not zero, CCBL2 is set up to transmit data (CXBDLXI). If it is zero, the CCBL2 is set up to transmit the first BCC character (CXBDLXB1). On the next level 2 interrupt, with the CCBL2 pointer set to CXBDLXI, the character-service routine sends the data out on the link. This routine loops until all the data has been sent on the link. With no more data to send, this routine sets up the CCBL2 pointer to transmit the BCC character that has been accumulated in the CCB.

The next level 2 interrupt transmits the rightmost byte of the BCC field (CCBBCC) in the CCB. The CCBL2 is set up to transmit the leftmost byte of the BCC field on the next level 2 interrupt. After the second BCC character is transmitted, CCBL2 is set up (CXBDLXFF) to transmit a flag to end the frame.

On the next level 2 interrupt, a check made for half-duplex to see whether a turnaround is needed on the line. If no turnaround is needed, 'frame transmitted' status is stored in the CCB (CCBCMPCD) and the line is set to transmit continuous flags (LCD/PCF=9D). A branch is taken to QACBL3 to queue the ACB to the ACB queue for level 3 processing and a PCI level 3 is set. Returning from QACBL3, the CCBL2 pointer is set to ignore interrupts from the line (CSBDLIDL) before EXITING from the program level. At this point, one PIU has been sent on the link.



The PCI level 3 interrupt gives control back to the link scheduler at entry CXELNKX, via the CCBL3 pointer. The 'transmit leg busy' flag is reset and a check is made to see if the last frame transmitted was an 'I'-format frame. If not, the frame must have been in 'S' or 'NS' format, so execution returns is to the scheduler at entry CXELNKSX to continue link activity.

#### Link Poll to Path Control Inbound

A poll frame has been sent down the link. The correct offset for the type of FID has been stored in the CCB (CCBOFSET), based on the secondary station type, and the 'receive' leg CCBL2 pointer has been set to monitor for flags. The CCBL3 pointer has been set up with the normal read-end processor address (CXELNKR).

When the first flag character is received, the 'monitor for flags' routine sets CCBL2 to receive the address (CXBDLRA). The hardware in the scanner handles any other flags received without causing any level 2 interrupts. The next level 2 interrupt comes with the first nonflags character received. This character should be the address field of the frame. The 'receive address' routine (CXBDLRA) checks the character received to see if it is the address expected. If it is not, then the link is reset to monitor for flags again. If the character is the expected address, the address is stored in the CCB (CCBAFLD). The BCC (CCBBCC) is initialized next and the CCBL2 pointer is set to receive the control field (CXBDLRC). Before EXITING from the program level, the BCC is accumulated for the address field which was received.

The next level 2 interrupt gives control to the control field routine (CXBDLRC). If the character received was a flag, a format error has occurred. The status is set to indicate format exception and the ACB is queued back for level 3 processing. If the ACB cannot be queued back for processing, 'block overrun' status is set and the remainder of the frame is flushed. If the character received is the control field, tests are made for the frame format. If the frame is an 'I' format, a buffer is leased and initialized. The CCBL2 pointer is set to receive data (CXBDLRI) before EXITING from the program level.

The 'receive data' routine accepts characters until a flag is received. The characters are stored in the buffer leased by the control field routine (CXBDLRC). If more buffers are needed, buffers are leased one at a time. When the flag character is received, the pointer to the data buffers is stored in the LXB (LXB DATAP). Next, three checks are made, testing for: (1) correct BCC for this frame, (2) the expected address, and (3) final frame. If this is not the final frame, the ACB is queued back to level 3 to process this frame and the CCB is set up to receive the next frame, starting with the address field (CXBDLRA). If this was the final frame (P/F bit on), the transmitting terminal sets 'poll/final' status and queues the ACB back to level 3 to process the frame.

The return to the link scheduler is via CXELNKR from the CCBL3 pointer. If the frame received is an 'I' format, a branch occurs to PROCIFMT to process the frame. PROCIFMT computes the frame length and sets the data offset and counts in each buffer. The last buffer count is adjusted for the BCC characters that were stored. The total data count is stored in the NCP buffer prefix and a test for station type is made: type 4 or not type 4. As a

result of the text, a branch is taken to the appropriate path control routine to route the PIU to its destination. Before returning to normal scheduling, the N(C) count is updated by 1.

### **Termination and Restart of an XIO Run Command**

The 'run' command is ended by triggering the link process queue in the LKB. The task pointer in the link process queue is for the 'run terminator' task. There are only six valid reasons for ending the run command:

1. Reset immediate ('deactivate link in progress', or 'contact' command)
2. Permanent link error (hardware or XMIT error)
3. Station counters overflow
4. Buffer pool end
5. Valid response or ERPs exhausted on 'contact poll'
6. Unrecoverable station error during poll

When the SDLC character-service routines uses PCI to return to level 3 for processing, the link scheduler checks the link status to see if 'run termination' is required. If 'run termination' is required, (CXELNKSS) the 'stop run' command is set in both of the CCB's (CCBCTL) for a full-duplex link. When both legs of the link become idle, the link scheduler ENDRUN subroutine triggers the run terminator task.

Based on the error status received, the ENDRUN subroutine flushes the LOB and LOS queues. For hardware or transmit error status, the ENDRUN subroutine flushes the LOB and LOS for all stations on the link. All PIUs on the station's LOB and LOS are set with 'path error' status, and put on the link inbound queue for that station. The link inbound queue gets triggered along with the run terminator task. For this type of error, the 'run' command is not reissued.

For other exceptions, only the current stations LOB and LOS queues are flushed. Again, all the PIUs on the current station's LOB and LOS are set with 'path error' and are put on the station's link inbound queue. The link inbound queue is triggered along with the run terminator task, but in this case the run terminator reissues the RUN command when the task finishes its processing.

The run terminator determines the reason for termination and the appropriate routine is called to handle the status. In an example of a permanent link error, the link is set inactive (LKBSTAT), the 'active links count' is decremented by 1, an 'inoperative' request is built and sent to the SSCP, and an MDR record is returned to the host. All the stations on the link are checked for FM data requests and if any are found they are returned to the SSCP with an error indication. All stations are left with 'inoperative' and 'poll skip' flags on.

### **Data Link Control Review**

The link scheduler is initiated for this link by an 'activate link' command addressed to NCP physical services. NCP physical services identifies the link to be activated in the PIU RU1NA field, and an 'enable' is processed for nonswitched links.

The link scheduler has a three-part cycle:

1. SERVLIM data passes are made through the service order table as long as one PIU is sent or received per pass. The first pass without a PIU transfer invokes part 2.
2. The physical units are searched for a contact command to be processed. The search begins with the first physical unit following the last unit serviced for a contact command and ends when a command has been serviced or all physical units have been scanned.
3. If in the last data pass (see point 1), the time specified in the PAUSE operand had not expired, the link scheduler waits until (a) a PIU is enqueued for a PU on this link and then transmits only; or (b) the time expires to begin polling.

The flow of an 'activate link' for an SDLC link is illustrated in Figure 9.1. The numbered items that follow identify the flow of the 'activate link' command and processing that takes place.

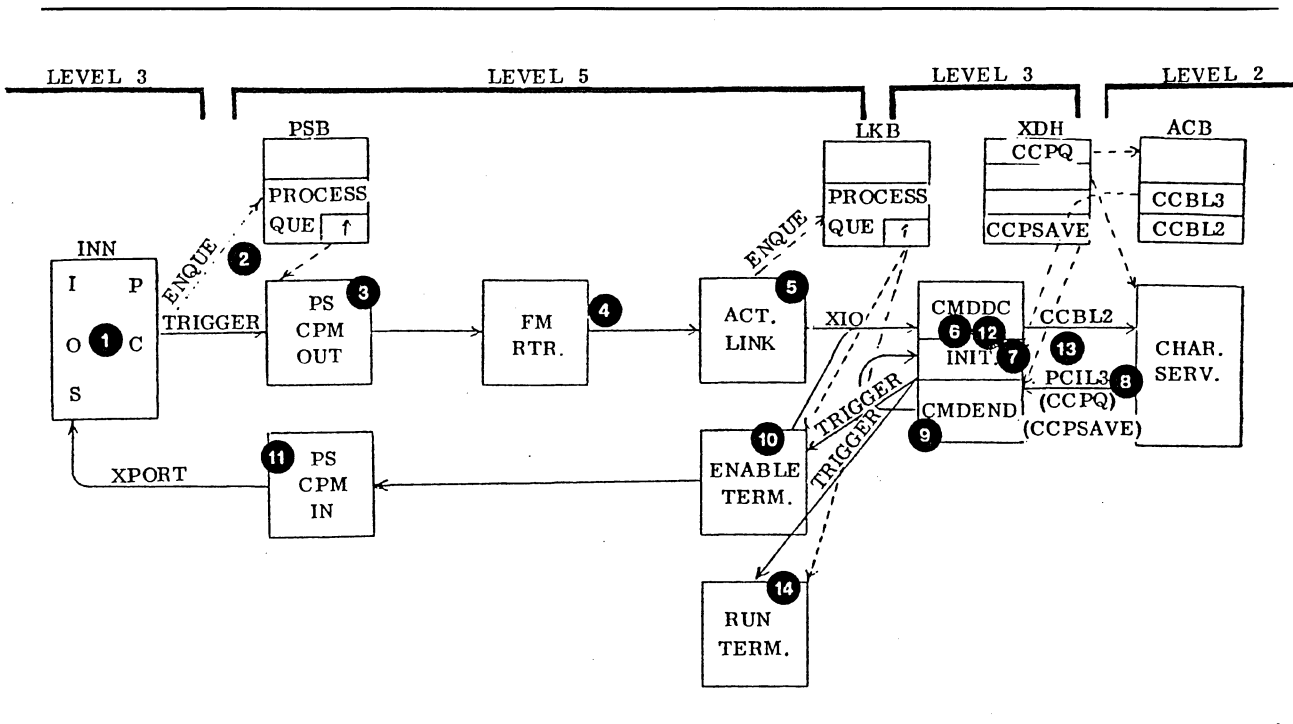


Figure 9.1 Activate Link Command Flow

1. At channel stop, IOS passes the PIU to path control via a branch.
2. Using the PIU DAF to access the SIT, SVT and RVT, path control enqueues the PIU to NCP physical services.
3. The PSB task is dispatched (PSB CPM-OUT), which calls the function management router.
4. Using RU1BT1 and RU1RC2 (bytes 1 and 2 of the RU), the 'function management router' selects and calls the 'activate link' processor.

5. 'Activate link' enqueues the PIU to the LKB, sets the LKB task pointer to 'enable terminator', sets 'activate link in progress', and issues 'enable XIO'.
6. Command decoder selects the proper initialization routine for 'enable'.
7. CCBL3 is set for the proper return from level 2, the ICW or BCB is set to 'data terminal ready', and CCBL2 is set to the proper level 2 routine to wait for 'data set ready'.
8. At 'data set ready', level 2 enqueues the ACB on the ACB queue (CCPQON) and issues a PCI to level 3.
9. CCPSAVE contains the address of the command ender, which gives control to the CCBL3 pointer.
10. The LKB is triggered, which schedules the 'enable terminator' task. The enable terminator task changes the LKB task pointer to 'run terminator', sets 'link active', and issues 'run XIO'.
11. NCP physical services CPM-IN sends a response to the channel queue for routing to the host.
12. The command decoder resolves the link scheduler as the initialization routine for 'run XIO'.
13. The link scheduler begins polling and selection for this link until the termination of the run command.
14. Should the 'run' command terminate, the 'run terminator' is dispatched because of the LKB task pointer.

### Data Link Control Quiz

Answer all of the following questions before checking the answers in Appendix B.

1. What command invokes the link scheduler for a specific link?
2. What two conditions restrict the number of passes through the service order table for data service?
3. When a level 2 scanner interrupt occurs, where can you find the address of the level 2 routine to be executed?
4. When a level 3 PCI is issued by a level 2 scanner routine, where can you find the address of the level 3 routine to be executed?
5. Where is the identifier of the current physical unit to be serviced by a contact poll?
6. Where can you find the identification of the current 'contact poll' command being executed?
7. What are the addresses of the LKBs of the active links?
8. What are the addresses of the LKBs of the switched links and non-switched links?
9. What are the addresses of the LKBs of the half-duplex links and the full-duplex links?

**Criterion**

**If you missed more than one question, you should review this section.**

# BSC/SS Processor

**Objective** Upon completion of this topic, the student should be able to identify the main components of the BSC/SS processor, the major control blocks, and flow of data in the modules.

**Definition of the BSC/SS Processor** The BSC/SS processor is that part of the NCP that processes requests for BSC/SS resources. Instead of the PIU, the basic unit of work is the basic transmission unit (BTU). Therefore, the BSC/SS processor must convert a FID0 PIU received from the host to a BTU and convert a BTU destined for the host to a FID0 PIU.

Processing within the BSC/SS processor is totally different from SDLC support for SDLC resources in boundary network node support. The routing of information to a BSC/SS resource includes the system router, command processor, work scheduler, I/O line task (including I/O line subtasks), character-service routines, and, if a type 1 scanner is defined, bit-service routines. Also, in addition to using a BTU instead of a PIU, many of the queues and control blocks are different.

This topic presents the data format, control blocks, components, and data flow used in the BSC/SS processor for communicating with BSC/SS resources and BSC/SS supporting routines.

## BSC/SS Major Control Blocks

**Block Control Unit (BCU)** When the BSC/SS router receives a FID0 PIU, the PIU/BTU converter builds the block control unit (BCU). The BCU consists of the first buffer prefix, event control block, a workarea, and the basic transmission unit (BTU). The format preceding the BTU is similar to the PIU prefix area. The BTU contains 14 bytes of control information from the FID0 and may contain text. The BCU may be contained in one buffer or in many buffers, depending on the size of the buffers and the amount of text in the BTU.

The major areas of the block control unit (BCU) are:

X'00'	Buffer prefix
X'04'	Event control block
X'0C'	Work area
X'14'	Basic transmission unit

The following are the fields of the basic transmission unit (BTU), which is contained within the block control unit (BCU). Offsets are from the beginning of the NCP buffer.

X'14'	Origin address field (always host resource, FID0 X'12')
X'16'	Destination address field (always nonhost resource, FID0 X'10')
X'18'	Sequence number (FID0 X'14')
X'1A'	System and extended BTU response, (FID0 X'20')

X'1C'	BSC/SS BTU command and modifier, (FID0 X'1C')
X'1E'	Function flags (FID0 X'1E')
X'20'	Text length (FID0 X'16' minus RH length of 3)
X'22'	User data (FID0 X'22')

BTU commands and modifiers are covered later in this topic.

**Resource Vector Table (RVT)** The BSC/SS portion of the RVT contains an entry for each LINE, CLUSTER, TERMINAL, and COMP macro in the BSC/SS portion of the NCP generation. Each LINE macro causes an entry to be built describing the type of entry and containing a pointer to the LCB representing that line. Each TERMINAL, COMP, or BSC/SS CLUSTER macro causes an entry to be built describing the type of entry and containing a pointer to the DVB representing that entry. The entries are built as the macros are encountered in the generation.

The format of the resource vector table (RVT) was described in the section on path control.

**Device Base Control Block (DVB)** The device base control block (DVB) contains an input QCB for the device input queue and a work QCB for the device work queue, as well as all parameters needed to operate a device. One DVB is built at NCP generation time for each CLUSTER, TERMINAL, and COMP macro coded (except for CLUSTER macros coded without the GPOLL operand). The DVB may have one or more external extensions, depending on the type of device and the features of the device represented.

Some of the key fields of the DVB are as follows:

X'00'	Device work QCB
X'08'	Device input QCB
X'18'	Block-handler status and address pointer
X'1C'	Device resource ID
X'1E'	Device features
X'2C'	Service-seeking control block
X'32'	Polling/addressing extension
X'36'	Polling extension

There are variable extensions to the DVB, depending upon the options selected when the generation definition is coded. Following are the control block extensions to the DVB (offsets to the extensions, if included, are in the DVB from X'27' to X'2A'. The format and values of the extensions can be found in the *IBM 3704 and 3705 Program Reference Handbook* under 'DVB'.):

BHR	Block handler routine extension
BUE	Switched backup extension
CGP	Cluster general poll extension
CIE	Callin extension

COE Callout extension

DAE Device addressing extension

**Line Control Block (LCB)** At NCP generation time, a line control block (LCB) is built for each BSC/SS line connected to the controller. The LCB contains information required for scheduling line operations. The LCB also has fields for maintaining line significant status information and three queue control blocks: (1) line I/O queue, (2) line work queue, and (3) the suspended sessions queue when the LCB represents a multipoint line. Depending upon the line type, the LCB may have nonswitched point-to-point, multipoint, or switched extension.

Some of the key fields of the line control block (LCB) are:

X'00'	Line I/O QCB
X'14'	Line work QCB
X'24'	Pointer to the adapter control block (ACB)
X'28'	Pointer to the line type command table (LTCT)
X'2C'	Pointer to the device (DVB) currently connected over the line
X'34'	Subtask sequence pointer
X'36'	LCB features, status, etc.
X'42'	Resource ID
X'44'	Multipoint extension and BSC/SS session definitions
X'44'	Switched extension

**Line Type Command Table (LTCT)** The LTCT contains the system command table, the offset table, and a collection of subtask sequence tables. The system command table is a table of all valid BTU command/modifier combinations. The line work scheduler finds the position in the system command table corresponding to the command and modifiers specified in the BTU. The corresponding position of the offset table gives the offset to the appropriate entry in the subtask sequence table.

BTU commands and modifiers are covered later.

**Adapter Control Block (ACB)** At NCP generation, an ACB is built for each line defined in the NCP. A BSC/SS ACB contains an input/output block (IOB) and a character control block (CCB). All ACBs are located in the first 64K of storage.

The ACB fields are as follows:

-X'03'	Retry count for dialout
-X'02'	Address of dialout line for auto call
X'00'	Input/output block (IOB)
X'24'	Character control block (CCB)

**Input/output Block (IOB)** The input/output block (IOB) contains the command and modifier to indicate the I/O operation to be performed. The IOB also contains status fields to indicate the outcome of the operation, and pointers to the beginning point and ending point of data sent or received, if any data is present.



Some of the key fields of the input/output block are:

- X'00' Flags, I/O command and modifiers
- X'0E' Pointer to first buffer in the block
- X'10' Pointer to last buffer in the block
- X'18' Pointer to the line control block (LCB)
- X'20' Partitioned emulation (PEP) flags

**Character Control Block (CCB)** The character control block (CCB) contains current information on the physical operation of the line and the data being transferred to or from the line. Some of the contents of the CCB are a pointer to the translate/decode table, a CCBL2 pointer, a CCBL3 pointer, and counters that maintain the position of data being accessed within buffers.

Some of the key fields of the CCB are as follows:

- X'24' Address of current level 2 character-service routine (CCBL2)
- X'30' Line address (type 2 or 3 scanners) or bit control block (BCB) address (type 1 scanner)
- X'34' Pointer to line group table (LGT)
- X'38' Current operational status
- X'46' Leftmost byte of transmit translate table (rightmost byte is character to be translated)
- X'4C' Address of next level 3 routine (CCBL3)

**Line Vector Table (LNVT)** The line vector table (LNVT) is generated from the CSB macro and initialized by the LINE macro. A different format is created for type 1 than for type 2 or 3 scanners.

#### *Type 1 LNVT*

The type 1 line vector table (LNVT) generates an entry of X'10' bytes for each possible line address for a type 1 scanner. An operand of MODEL=3705 generates 64 entries from address X'800' to X'BFF'. An operand of MODEL=3704 generates 32 entries starting at X'800'. A line address of X'00' to X'3F' is multiplied by X'10', then added to X'800' to calculate the BCB address. The BCB is used by the level 2 routines in program support of the ICW used by a type 2 scanner. An undefined line address has the rightmost bit set to 1 in the first halfword. If the bit is 0, the first halfword points to the adapter control block (ACB).

#### *Type 2 or 3 LNVT*

The type 2 or 3 line vector table (LNVT) generates a two-byte entry for each possible line address (96) for each defined scanner (CSB macro). A single scanner generates 96 halfword entries from X'800' to X'8BF'. Each subsequent CSB macro reserves an additional 96 halfwords. An undefined line address has the rightmost bit set to 1 in a halfword entry. A bit of 0 indicates that the halfword contains the address of the adapter control block (ACB) for

this line. Because the first scanner has 64 lines starting at line address X'20', the first X'20' entries from X'800' to X'83F' are set as invalid.

If a line address is known for a type 2 or 3 scanner, the LNVT entry can be calculated by multiplying the line address by 2 and adding X'800'. The LNVT allows the level 2 routines to find the ACB (and CCB) for a line when only the line address is known.

**Bit Control Block (BCB)** The bit control block (BCB) is a X'10' byte control block which provides the same facility for a type 1 scanner as the ICW hardware provides for a type 2 scanner. A BCB is generated for each LINE macro defined for a type 1 scanner and is a valid entry of the type 1 line vector table (LNVT).

**Service Order Table (SOT)** The BSC/SS service order table (SOT) is generated by a SERVICE macro to identify the sequence of service given to devices on a multipoint line. A pointer in the line control block (LCB) at X'4C' points to the current entry in the table for service. All BSC/SS multipoint lines have a service order table, which contains the following entries:

- X'00' Maximum number of entries
- X'01' Number of entries in use
- X'02' Reserved
- X'04' Four-byte entries of address pointers to the DVBSTAT field of the DVB for a device in the SOT. More than one entry can point to the same DVB.
- X'xx' Last four-byte entry has a negative offset to the first entry in the SOT in the first two bytes, and zeros in the last halfword.

### **BSC/SS Processor Components**

Processing within the BSC/SS processor is totally different than in the SDLC support for SDLC resources. The routing of information to a BSC/SS resource includes the system router, command processor, work scheduler, input/output line task (including input/output subtasks), character-service routines, and if required, bit-service routines.

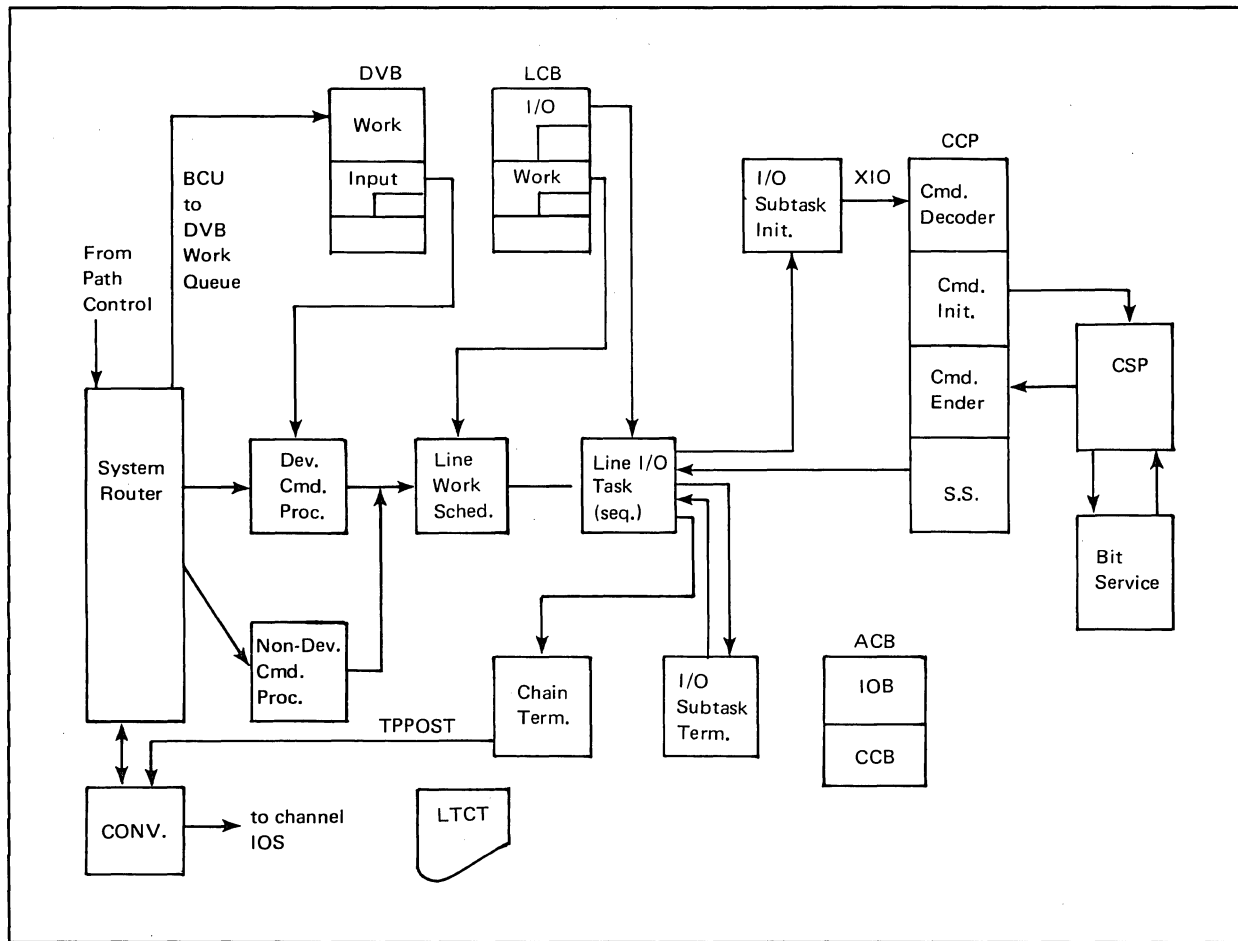


Figure 10.1. BSC/SS Processor Components

This section describes the BSC/SS processor components, providing information about the functions each component performs, the control blocks each component uses, and the manner in which each component passes control to the next. Figure 10.1 illustrates the components and processing flow.

**System Router** The system router receives control and data PIUs from 'path control out' via a branch. The system router branches to the PIU/BTU converter and, after conversion, control is returned to the system router. The system router resolves the BCU resource ID using the BSC/SS portion of the RVT. From the RVT, the system router obtains resource type information and the address of the control block representing this resource. The control block may be a device base control block (DVB) or a line control block (LCB). A DVB represents a terminal, component, or a BSC/SS cluster (these are considered to be device-type resources). An LCB represents a line (nondevice).

If the resource is not a device, the system router enqueues the BCU on the nondevice input queue. There is only one nondevice input queue, the address of which is in the extended halfword direct addressable (HWE) at X'2C'.

If the resource is a device, the system router enqueues the BCU on the input queue of the DVB representing that resource. If the command and modifier

for the device indicate a critical control command (bit 1=1), the BTU is enqueued on the devices input queue ahead of data and noncritical control commands. The ENQUE macro used contains the ACTV=YES operand which results in a trigger.

**Nondevice Command Processor** If the system router enqueues a BCU on the nondevice input queue, the nondevice command processor is triggered. The nondevice command processor dequeues the BCU from the nondevice input queue and processes the nondevice command contained within the BCU.

**Device Command Processor** If the system router enqueued a BCU on the input queue for a DVB, the device command processor is triggered. The device command processor validates the BTU command and modifiers, dequeues the BCU from the DVB input queue, enqueues it to the DVB work queue, and triggers the line work scheduler.

**Line Work Scheduler** The line work scheduler uses the BTU command and modifiers as a search argument against the line-type command table (LTCT). In the LTCT, the chain of subtasks necessary to process the BTU command and modifiers is found. The line work scheduler also dequeues the BCU from the DVB work queue, enqueues it to the line I/O queue, and triggers the line I/O task.

**Line I/O Task** The line I/O task is made up of the sequencer and line I/O subtasks.

The sequencer simply gives control sequentially, as required, to the line I/O subtasks contained in the selected chain.

The line I/O subtask chains are made up of pairs of subtask initiators and subtask terminators (different pairs according to the BTU command and modifiers), plus a chain terminator (read or write version).

Each I/O subtask initiator stores an IOB command in the IOB (contained in the ACB for a BSC/SS line) and issues an XIO macro to pass control to the communications control program (CCP), which runs in level 3.

After the CCP and level 2 processing is completed for a given IOB command, each I/O subtask terminator gets control when the line I/O sequencer is triggered by the CCP. The I/O subtask terminator checks to see if the command completed successfully; if so, the terminator passes control back to the sequencer, which gives control to the next I/O subtask initiator or the chain terminator for this chain.

The chain terminator updates the response field in the BCU and issues a TPPOST macro which branches to the BTU/PIU converter. The converter then passes the PIU to the channel adapter I/O supervisor.

**Communications Control Program** The BSC/SS CCP is made up of (1) the command decoder, (2) the command initializer, (3) the command ender, and (4) the BSC/SS service-seeking module.

The command decoder receives control from the XIO macro issued in an I/O subtask initiator. The decoder selects the proper initialization routine by using the command that was placed in the IOB. The command decoder then passes control to the command initializer.

The command initializer initializes the CCB (contained in the BSC/SS ACB) and the communication scanner in whatever way is necessary to accomplish the level 2 processing for the IOB command. When the command initializer is finished, level 2 interrupts begin to occur on this line for the IOB command.

When level 2 has finished processing the IOB command, the command ender receives control via a level 3 PCI initiated by level 2. The command ender checks whether a good completion occurred; if so, it triggers the line I/O task.

**Character Service Program (CSP)** The CSP processes level 2 interrupts from the communications scanner. Processing initially begins according to how the command initializer sets up the CCB level 2 pointer. From then on, CSP updates the CCBL2 pointer as required. For a type 2 scanner (CSB macro-coded with an operand of TYPE=TYPE2), the CSP moves a character at a time into the scanner's ICW for a given line (for 'write' operations) or removes a character at a time from the ICW for a given line (for a 'read' operation). For a type 3 scanner (CSB macro coded with an operand of TYPE=TYPE3), the data characters are transferred by cycle steal to the end of an NCP buffer or end of block. When CSP processing is complete for an IOB command, a level 3 PCI is issued to pass control back to the CCP.

**Bit Service** Bit-service routines are included in the NCP for type 1 communications scanner support only. The bit-service routines emulate the type 2 scanner hardware (serializer/deserializer, ICW, and related functions) not included in the type 1 scanner. To accomplish this emulation, the bit control block (which takes the place of the ICW) is included in the NCP if a CSB macro is coded with an operand of TYPE=TYPE1. For each level 2 bit-service interrupt, the bit-service routines move/remove one bit at a time to the type 1 scanner, and cause the scanner to present a character-service level 2 interrupt when required.

### BTU Commands for BSC/SS Resources

The basic transmission unit (BTU) is the unit of transfer within the BSC/SS processor. Data that passes between the host and the BSC/SS processor must be converted between the PIU and the BTU formats. In the buffer, the BTU is contained within the block control unit (BCU).

For data transfer to or from the BSC/SS resources, the BSC/SS processor uses three units of transfer: block, message, and transmission.

A block is the smallest unit recognized by the network control program. For SS devices, the data between two end-of-block (EOB) characters; for BSC devices, the data between a start-of-text (STX) or start-of-header (SOH) character and an end-of-transmission block (ETB).

A message for SS devices is the same as a transmission, that is, the data between a start-of-data (circle D) and end-of-block (EOB), end-of-transmission (EOT); for BSC devices a message is the data between a start-of-text (STX) or start-of-header (SOH) character and ended by an end-of-text (ETX) character.

A transmission for SS devices is the same as a message. For BSC devices, a transmission is ended by an end-of-transmission (EOT).

For large amounts of data coming from a terminal, the BSC/SS processor can run in subblocking mode. The BSC/SS processor passes data to the host as a

subblock before receiving an EOB, ETX, or EOT. Subblocking is in full multiples of NCP buffers, as specified on the TRANSFER operand of the LINE macro, and CUTOFF specifies the number of subblocks before the data is flushed. The BSC/SS processor automatically sends data to the host on an EOB or ETX.

There are five BTU commands that are used with all BSC/SS devices. The commands are: 'invite', 'contact', 'read', 'write', and 'disconnect'. Even though the physical operation may be different for each device, the same commands are used. Each of these commands is discussed in detail later in this manual.

The 'invite' and 'contact' commands establish a BSC/SS session. The 'invite' command implies a 'read'. The 'read' and 'write' commands transfer data between the host and a device. The 'disconnect' command ends a session. By the use of command modifiers a number of commands can be combined into one request from the host.

There are two other commands the host can send to the BSC/SS processor: 'control' and 'test'. The 'control' command is used to alter or examine the status of a line or device. The 'test' command is used to test a BSC/SS device or line. The online line test (OLLT) tests BSC/SS lines; the online terminal test (OLTT) tests BSC/SS terminals. For these tests, the text portion of the BTU contains interpretive commands.

The BTU response information is contained within the system response byte of the BTU and the extended response byte of the BTU. The system response byte identifies a response as an error response or normal response. The system response byte also contains the phase (0, 1, 2, or 3) to which this response applies and the system response code. The extended response byte contains the initial status of the line and the final status of the line.

The BTU commands given below may be found in *IBM 3704 and 3705 Program Reference Handbook* (GY30-3012), Section 3: BTU commands and modifiers.

**Contact Command** The 'contact' has a BTU command of X'06' with no modifiers. The 'contact' does not imply any data transfer, but only assures that a connection is available for data transfer. When a response to a 'contact' is received by the host, the host may then issue either a 'read' or 'write' command. Control commands, such as 'reset device queues' or 'reset immediate' can request termination of a 'contact' command.

**Invite Command** 'Invite' has a BTU command of X'05', with several modifiers available to qualify the 'invite', as follows:

- X'00' Invite normal. Unit of data for this command (block, message or transmission) is specified on the NCP macro defining the device. Default is block.
- X'01' Invite block. Unit of data for this command is a block. Ended by EOB.
- X'02' Invite message. Unit of data for this command is a message. Ended by ETX (BSC) or EOT (SS). Message and transmission are the same for SS.

- X'03' Invite transmission. Unit of data for this command is a transmission. Ended by EOT (BSC).
- X'04' Invite transmission with disconnect. Executed as an 'invite transmission' command followed by a 'disconnect' command.
- X'05' Invite with auto restart. Executed as unbounded series of 'invite with disconnect' commands. This command must be terminated with a 'reset' command.
- X'06' Invite perpetual. Valid only for clusters. Executed as an unbounded series of 'invite transmission' commands with no intervening 'disconnect' commands.

If an 'invite' is pending (no response from the terminal), and data is available to send to the device, the 'invite' can be terminated by control commands of 'reset invite', 'reset conditional', or 'reset at end of command'.

A 'write' to a BSC 3270 occurs without a reset of the 'invite perpetual'.

**Read Command** 'Read' has a BTU command of X'01' with several modifiers, as follows:

- X'00' Read normal. Unit of data for this command (block, message, transmission) is specified on the NCP macro which defines the device. Default is block.
- X'01' Read block. Unit of data for this command is the block. Ends with an EOB.
- X'02' Read message. Unit of data for this command is the message. Ends with an ETX (BSC) or EOT (SS). The message and transmission are the same for SS.
- X'03' Read transmission. Unit of data for this command is a transmission. Ends with an EOT (BSC).
- X'04' Read transmission with disconnect. Executed as a 'read transmission' command followed by a 'disconnect' command.
- X'05' Read with invite. Executed as a 'read transmission with disconnect' followed by an 'invite normal' command.

The read command can be terminated by a 'reset device queues', 'reset immediate', 'reset conditional', or 'reset at end of command'.

**Write Command** 'Write' has a BTU command of X'02' with several modifiers, as follows:

- X'00' Write normal. Unit of data is one block. Ended by an EOB.
- X'01' Write with end-of-message. Unit of data is one block followed by the appropriate control sequence for an end of message.
- X'02' Write with end of transmission. Unit of data is one block followed by the control sequence for end of transmission.
- X'03' Write with disconnect. Executed as a 'write transmission' command followed by a 'disconnect command'.

- X'06' Write with read. Executed as a 'write with end of transmission' followed by a 'read' command.
- X'07' Write with invite. Executed as a 'write with end of transmission' followed by a 'disconnect' command and then an 'invite' command.
- X'08' Write with contact. Executed as a 'contact' command followed by a 'write normal' command. Ended with an EOB.
- X'09' Write with contact. Executed as a 'contact' command followed by a 'write with end of message'. Ended with ETX (BSC) or EOT (SS).
- X'0A' Write with contact. Executed as a 'contact' command followed by a 'write with end of transmission'. Ended with EOT.
- X'0B' Write with contact and disconnect. Executed as a 'contact' command followed by a 'write with end of transmission' followed by a 'disconnect' command.
- X'0E' Write with contact and read. Executed as a 'contact' command followed by a 'write with end of transmission' followed by a 'read normal' command.

The 'write' command can be terminated by 'reset device queues', 'reset immediate', 'reset conditional', or 'reset at end of command'.

**Disconnect Command** 'Disconnect' has a BTU command of X'07' with several modifiers, as follows:

- X'00' Disconnect normal. No modifier
- X'01' Disconnect with invite. Executed as a 'disconnect normal' followed by an 'invite normal' command.
- X'02' Disconnect with end of call. For switched lines, this modifier results in the physical connection between the terminal and the communications controller being broken. For nonswitched lines, this modifier is the same as 'disconnect normal'.
- X'03' Disconnect with end of call and invite. Executed as a 'disconnect with end of call' followed by an 'invite' command.

The 'disconnect' command is reset by 'reset immediate'.

**Control and Test Commands** The control commands have a BTU command of X'08' with many modifiers. The test commands have a BTU command of X'03' with many modifiers. A listing of commands and modifiers is given in *IBM 3704 and 3705 Program Reference Handbook* (GY30-3012), Section 3: BTU Commands and Modifiers.



**BSC and SS Sessions**

The ability of the NCP BSC/SS processor to conduct multiple sessions on the same multipoint line depends upon the fact that data transfer does not occur continuously for the duration of a session. For example, for inquiry/response applications, the elapsed time between receiving a response from the host processor and entering the next inquiry typically exceeds the time required for transmission of the inquiry and response. This elapsed time is the result of operator 'think' time. The interval during which the terminal is not using the line can profitably be used to service other terminals on the same line.

The number of concurrent sessions to be conducted on a line depends upon several factors. Among these are (1) the relative amount of time a terminal in use does not need the line, and (2) the permissible delay between the time the operator is ready to use the terminal and the time the line is available to that terminal. The number of concurrent sessions on a line is specified by the user in the SESSION operand of the LINE macro. This value is called a session Limit.

The sequence by which the BSC/SS processor attempts to establish sessions on a multipoint line is determined by the service order table associated with the line. This table is defined by the SERVICE macro, directly following the LINE macro.

**Logical Connections** A session is active when the BSC/SS processor is communicating with, or is ready to communicate with, the associated device. If the NCP is not communicating with, or is not ready to communicate with, the associated device, the session is either suspended (but within an active session) or inactive.

In most applications it is necessary to limit the amount of time a session is permitted to be active in order to prevent a device, once in session, from monopolizing the line. The period during which a session is active is called a logical connection. The length of a logical connection is the maximum number of transmissions that may be transferred in either direction between the BSC/SS processor and the device during the logical connection. The limit is specified in the XMITLIM operand of the CLUSTER, TERMINAL, or COMP macro representing the device. The user can indicate that the XMITLIM specifies the number of blocks, rather than transmissions, by coding ENDTRNS=EOB on the macro.

Once a session has been established, the BSC/SS processor repolls the device for each subsequent transmission solicited from the device. You may have the program repeat the polling operation one or more times, if you wish to allow the device more time in which to respond. The number of polling operations allowed during this period is specified in the POLIMIT operand of the LINE macro. The value specified in the POLIMIT operand is called the negative response limit. The best performance results occur with a value of 1.

Once the negative response limit is reached, the BSC/SS processor can proceed in one of three ways:

1. NOWAIT. The BSC/SS processor breaks the logical connection and cancels the read request that caused the polling. The host is informed.

2. WAIT. The BSC/SS processor maintains the logical connection, holding the line; informs the host the negative poll limit has been reached, and waits for a new command from the host.
3. QUEUE. The logical session is suspended, the command is queued for the next logical connection for this device, and the host is notified that the negative poll limit was reached.

Note that the specific operand may be host-system dependent; refer to the appropriate system Programmer's Guide for additional information.

Most types of I/O errors that occur during an active session cause suspension of that session. The host is notified of the error.

**Session-Servicing and Service-Seeking** The activity of attempting to establish a new session on a BSC or SS line is called service-seeking. Service-seeking occurs by searching all DVBs for an 'invite' or 'contact pending' bit in DVBSTAT, in the sequence of the service order table (SERVICE macro). If either the 'invite' or 'contact pending' bits have a value of 1, the device is polled or addressed (if it is a polled device) or otherwise enabled for communication. These bits are 0 once a session is established, but the 'connection exists' bit indicates that 'read' or 'write' commands may be processed during a logical connection. The 'disconnect received' bit in DVBSTAT, set when a 'disconnect' command is received, indicates that the session is to be terminated.

The activity of servicing existing sessions is called session-servicing. Session-servicing occurs by sequentially servicing all of the DVBs queued on the suspended session queue in the LCB for that line. Servicing a session consists of establishing a logical connection, then sending or receiving data (or both) until the logical connection ends.

Session-servicing and service-seeking alternate in a sequence of operations called a service cycle. A service cycle consists of service-seeking and session-servicing if at least one session exists. If no sessions exist, only service-seeking is performed. If the existing sessions equal the session limit, only session-servicing is performed.

The maximum number of devices with which the program attempts to establish a session during each service-seeking operation is called the service-seeking limit. To specify the service-seeking limit, the SERVLIM operand of the LINE macro should be coded with the maximum number of devices with which the program is to attempt service-seeking during one service-seeking operation. Service-seeking attempts are in service order table (SOT) sequence for this count, even if the DVBs searched are currently in session; each DVB is scanned for an 'invite' or 'contact pending'. If response time is poor for existing sessions, you may improve performance by coding SERVLIM with a low value; the default is one-half the entries in the service order table.

You may also specify whether service-seeking or session-servicing is to have priority. This option is specified by coding SERVPRI=OLD if session-servicing is to have priority, or SERVPRI=NEW if service-seeking is to have priority. If response time is poor for existing sessions, you may improve performance significantly by coding SERVPRI=OLD.

Nonproductive polling and the associated processing overhead can be minimized by specifying a service-seeking pause. The pause is in effect only when there are no established sessions and only service-seeking occurs for this line. The pause is specified in the PAUSE operand of the LINE macro. When the first session is established, the pause becomes inoperative until all active sessions have terminated for this line.

Session information can be changed by commands from the host. The control command (X'08') with the following modifiers can be used for dynamic tuning of the network:

- X'84'      Change line service-seeking pause
- X'85'      Change line negative poll response limit
- X'86'      Change session limit
- X'8C'      Change device transmission limit

The fields which are changed by these commands are in the line control block (LCB) in the multipoint extension. These values can also be changed from the 3704 or 3705 control panel.

In specifying session limits, special consideration must be given to devices which use general polling. The BSC 3270 uses the general poll ('invite perpetual') to obtain input. A response to a general poll may include data from all 3277s on the cluster controller, exceeding the session limit. If the session limit is reached by a general poll of one cluster, other clusters on the same line are not polled. BSC 3270s should have a session limit equal to the total entries in the service order table; one per cluster controller plus one per 3277.

Write operations to BSC 3270s are queued to the DVB which represents the terminal. Read operations occur when the DVB representing the cluster controller is processed for service-seeking.

### **BSC/SS Flow**

The scheduling of the BSC/SS request for execution begins with the device command processor, operating from the device input queue, and is composed of a main routine and several subroutines. The device command processor decodes the command, makes various error checks, depending upon the command, and, if no errors are found, accepts the command. If errors are found, the proper response code is moved to the BTU and is returned to the host.

Accepting the command, the device command processor enqueues the BCU on the device work queue (DVB X'00'). Since the work queue has no executable code associated with it, no task is triggered as a result of the enqueueing. If the line work scheduler is idle, the device command processor must trigger the line work scheduler to ensure that the input/output operation is initiated.

The device command processor also processes control commands directed to a device. If the command is a control command, the device command processor enqueues the BCU to the device work queue, provided the control command is noncritical and the device is in session. If the command is critical, or if the device is not in session, the device command processor passes control to the control router.

The nondevice command processor, operating from the nondevice input queue, processes all control commands that are not directed to a device. The processor dequeues the BCU from the nondevice input queue and uses the resource vector table (RVT) to determine the address of the line control block (LCB) representing that line.

If the control command is supported in the system, the nondevice command processor calls the control router. The control router scans the supported control command tables looking for a match. When a match is found, the control router branches to the routine. When the control command routine has finished its processing, the control router triggers the line work scheduler.

The same line work scheduler gets control regardless of the line type. A different subroutine of this task exists for each type of line: point-to-point (which also supports switched callin), switched callout, and multipoint. The line work scheduler assigns a subtask sequence chain to the request by decoding the command, using the line type command table (LTCT). The LTCT contains an offset table and a collection of subtask sequence tables. The offset table corresponds to the system modifier table (a table of all valid command/modifier combinations). The line work scheduler finds the position in the system command table corresponding to the command and modifiers specified in the BTU. The corresponding position in the offset table of the LTCT gives the offset to the appropriate entry in the subtask sequence table. Each entry in the subtask sequence table is a series of pointers to the I/O subtasks necessary to process a particular command. Each pointer is the fullword address of an I/O subtask.

Once the initial pointer to the required subtask sequence has been established by the line work scheduler, the offset into the subtask sequence is stored in the LCB (LCBSSP) for the line. The line work scheduler then enqueues the request BCU on the line I/O queue.

The next task to get control is the line I/O task which was triggered by the line work scheduler. The line I/O task consists of a line I/O sequencer and a series of initiator/terminator subtasks. The subtasks associated with a line I/O task vary, depending upon the command being processed at any given time, and the type of line, switched or nonswitched.

When the line I/O QCB is activated, the line I/O sequencer receives control. The line I/O sequencer updates the subtask sequence pointer passed to it by the line work scheduler and gives control to the next subtask in the sequence. The initiator/terminator subtasks are structured to perform a series of I/O operations. A complete sequence of subtasks executes all the I/O operations necessary to perform a requested function. Initiator subtasks structure the line's input/output block (IOB) by inserting the required I/O command and modifier codes and initializing other appropriate fields, then issuing an XIO macro to start the I/O operation.

When the I/O operation completes, the terminator subtask checks the I/O completion status, initiates any error recovery procedures, and prepares the line I/O task for the next operation. If a terminator does not initiate any action that requires supervisor dispatching (such as issuing an XIO or TRIGGER macro), control returns to the supervisor via the SYSXIT macro to allow other level 5 tasks to compete for level 5 system time.

**BSC/SS XIO Processing**

BSC/SS XIO processing is handled by the communications control program (CCP). The CCP for BSC/SS processing consists of the command decoder (CXECMDC), command initializers (CSECMDI), the command ender (CXECEND) and the BSC/SS service-seeking module (CXESVSK). The CCP routines initiate and terminate data transmissions on the line; the character service program accomplishes the actual data transmission.

After an XIO is issued to a communications line by the level 5 I/O subtask, the communications control program (CCP) gets control from the supervisor. One of three decode routines is entered, depending upon which type of XIO was executed. The three types of XIO commands are:

- Normal IOB (CSEMDC0)
- Set mode (CSECMDCI)
- Immediate control (CXECMDC2)

**Normal IOB Command (CSEMDC0)** With information about the command in the line IOB, the nucleus routine for decoding normal XIO commands performs a number of initialization steps common to all such commands.

Certain IOB fields (status fields, input block size, and immediate control field) are set to zero, and the connection between the adapter control block (ACB) and line vector table (LNVT) is validated. If the ACB/LNVT connection is invalid, the XIO SVC is abended.

The character control block (CCB) is checked to see if that block is already busy executing a command or subblocked operation. The phase bits in CCBCTL are nonzero if the line is busy. If the CCB is found to be busy, the XIO SVC is abended unless the new command is appropriate for completing an outstanding subblocked operation.

The line adapter (ACB) is placed in the NO-OP state unless the ACB is completing a subblocked operation. This state permits level 2 to be enabled while command initialization steps are performed to the CCB, without interference from level 2 interrupt processing on this particular line.

At the start of command initialization, CCB fields are checked for any outstanding status conditions. Such conditions prevent the new command from being executed at this time. The new command is ended, using the outstanding status as its ending status and using the phase set to indicate the clearing of outstanding status.

The command control byte (CCBNCFL) is checked to see whether command initialization can proceed immediately or must be suspended until (1) something is received from the terminal or (2) a timeout completes.

As far as the decoder is concerned, there are three classes of commands: normal, common control, and subblock mode.

The first class consists of the normal data transfer commands, such as 'read initial' and 'write with end of transmission', since their execution is dependent on the particular type of line control. The initialization routine to be branched to is located through the command decode table pointer of the line

group table (LGT) for the line. The initialization routines for these commands reside in the CSECMDI CSECT.

The common control commands include 'enable', 'dial', and 'disable'. Their functions are common to different types of line control, so the initializing routines are the same for all common control commands, which reside in the CSECMDC CSECT.

The subblock mode commands are normally accepted only if the line is busy. The decoder branches to the subblock command initializer, which resides in the CXECMDI CSECT.

The function of the command initializer routines is to examine the command and set up the adapter control block (ACB) with the proper values to handle the I/O on the lines. This module also sets initial timeouts and sets up the interface control word (ICW). Upon completion of level 2 operations, if the expected ending status is satisfied, control returns to the address contained in CCBL3.

**Set Mode Command (CSECMDC1)** The entry point into the communications control program (CCP) for an XIO 'set mode' is CXECMDC1. This code validates the 'set mode' command, vectors into the set mode command decode vector table, using parameters passed from level 5, then branches to the routine for execution. When the set mode function has completed, control returns to the level 5 routine via the supervisor.

**Immediate Control Command (CXECMDC2)** The entry point into the communications control program (CCP) for an XIO immediate is CXECMDC2. Several different types of resets are provided. Some resets are conditional and some are unconditional. The purpose of the resets is to terminate an IOB command operation or an ongoing subblocking operation. If the reset is successful, storing of received data is halted; if the line is subblocking, the receive buffers are released and the data is lost. If the line is transmitting when the reset is executed, the transmission is terminated in an orderly way.

The reset routine contains a branch tree to determine exactly what type of operation is to be reset: receive text, receive control data, transmit text, or transmit control data. For all 'reset immediate' routines, the linkage through the command ender is established via the CCBL3 pointer to the common reset end routine in CXECEND (CXECENDY), and by zeroing expected status. Then if the reset operation is completed without any hardware errors, the IOB command is ended with IOB status set to 'special' and 'reset', and phase set 'on' in the error flags byte. The phase of 'reset' is always 'control'.

There are two other types of 'immediate control' XIO commands. The first causes the break signal (SS only) to be sent if the line is currently executing a 'read' type IOB command. The second type places the line in monitor mode, provided the line is not executing an IOB command. If not busy or if handling a subblock between commands, the line is set to monitor mode, in which the line triggers the LCB's input/output task if an ending status condition occurs.

While in monitor mode, the line is busy to all IOB XIO commands issued to it. The result of an XIO being issued is to abend the task that executed the XIO, if monitor mode has not ended due to ending status or reset.

### Character Service Program (CSP) Flow

The function of the character service program (CSP) is to maintain the line discipline while transmitting or receiving data. There are two types of CSP: one for BSC line control, one for SS line control.

Each CSP is made up of routines to handle the line discipline in addition to the transmission and reception of data. Each CSP routine sets up the CCBL2 pointer for the next function needed to complete the I/O operation.

When the I/O operation has completed, the last level 2 CSP routine that gets control queues the ACB to the CCP ACB queue (CCPQOFF) for processing to the level 3 command ender via a PCI level 3 interrupt.

When the CSP routines have finished processing, the last routine issues a PCI level 3 after queueing the ACB to the ACB queue. The PCI level 3 interrupt passes control to the command ender routine in the CCP in level 3. The command ender removes the ACB from the ACB queue, and, if the queue is empty, resets the PCI level 3.

The command ender compares the ending status of the current command with the expected status stored in the CCBESTAT field. If the two agree, and no error bits were flagged, the routine exits to the routine pointed to by CCBL3. The CCBESTAT and CCBL3 fields were both set during command initialization. If CCBESTAT=0, the command ender automatically accepts the results.

If the ending status does not agree with the expected status, or if any error bits were flagged, the error recovery program (ERP) setup routine schedules the appropriate ERPs.

The ERP setup routine uses the phase bits (CCBCTL) and CCBEND1 to vector to the correct ERP branch table within the command ender. The ERP setup routine branches to the ERP routine, where a check is made for retry limits. If the limit has not been reached, the ERP routine branches to the initialization routine to retry the operation. If the limit is reached, the command is ended and the ERP routine triggers the line I/O task. The line I/O task gives control to the I/O terminator subtask to check whether the second level ERP limit has been reached. If the second level ERP limit has not been reached, the I/O terminator subtask reschedules the I/O initiator subtask. Error recovery continues either until the limit is reached or the I/O operation has completed successfully. In either case the I/O terminator subtask TPPOSTs the appropriate response back to the host.

Figure 10.2 illustrates the flow of the BSC/SS Processor. The command sequence is identified in the numbered points following the figure.

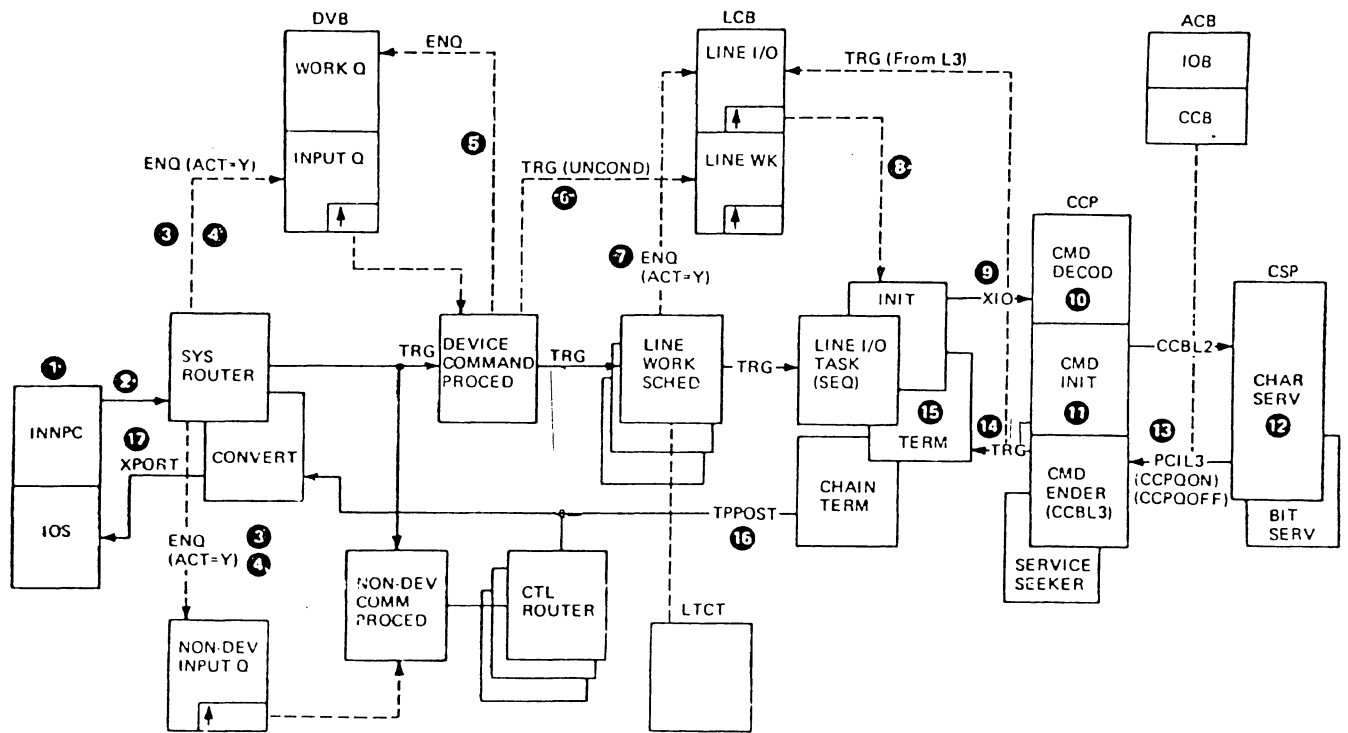


Figure 10.2. BSC/SS Processor Flow

1. Channel IOS branches to path control.
2. Path control uses the DAF to access the SIT, SVT, and RVT in order to identify a BSC/SS resource. Path control branches to the system router, which converts the FIDO PIU to a BTU.
3. The system router enqueues the BTU to either (1) a DVB queue, or (2) if the destination is a line, to the nondevice input queue.
4. The enqueueing triggers the DVB or nondevice processor.
5. The device command processor moves the BTU to the DVB work queue.
6. The line work queue is unconditionally triggered.
7. The line work scheduler moves the BTU to the line I/O queue and selects the proper subtask sequence.
8. The line I/O task sequences the initiators and terminators via branches.
9. The initiators issue the XIO.
10. Command decode selects the command initiator.



11. The command initiator sets up the line ICW, CCB, and CCBL2.
12. CSP handles the transmission or receive.
13. The end of the command at level 2 initiates a PCI to level 3 to the command ender.
14. The line I/O queue is triggered.
15. The terminator subtask (or error routine, if necessary) returns control to the line I/O task sequence (item 8).
16. The chain terminator TPPOSTs the BTU to the convert routine to change the BTU to a FID0 PIU.
17. The convert routine XPORTs the PIU to the channel queue to be sent to the host.

Refer to the following publication for additional information:

*IBM 3704 and 3705 Communications Controllers, Network Control Program/VS, Program Logic Manual (SY30-3013)*. See:

- Appendix B: BSC/SS Control Command Cross Reference Table
- Appendix C: Sequences of I/O Subtasks for BSC/SS Processing in Level 5
- Appendix D: Command Sequence Charts (identifies the CCBL2 and CCBL3 Routines)
- Appendix F: Online tests

### Block-handler Routines

The BSC/SS processor provides three points at which user-written routines or IBM-supplied routines may be executed for the manipulation of data. These data manipulation routines are called block-handler routines (BHR).

Block-handler routines are data-oriented. The routines are given access to blocks that contain data at the following times:

1. Before the output is sent to a device: blocks accompany 'write' commands only (execution points 1 and 2).
2. After input is received from a device: blocks accompanying commands of 'read', 'invite', 'write conversational', 'write with read modifier' (in read phase), 'write with contact and read modifiers' (in read phase) (execution points 2 and 3).
3. When the block is in error (execution points 2 and 3).

Block-handler routines (BHR) are grouped into units called block-handlers (BH). A block-handler is designated at NCP generation to be executed at one of the three points listed below. Up to three block-handlers (a possibility of one for each execution point ) are grouped to form a block-handler set (BHS). Each device can be assigned a BHS at NCP generation. The BHS can be flagged as initially executable or it can be activated later by a control command. A control command can also be used to assign a BHS dynamically to a device, or to change the BHS association specified at NCP generation.

The BCU being edited by the BHRs resides on a different queue at each of the three points of execution. At point 1, the BCU is on the device input

queue (DVB); at point 2, the BCU is on the line input/output queue; at point 3, the BCU is on the point 3 BHR queue extension to the DVB.

The three execution points are as follows:

#### *Point 1*

The point 1 entry is used for BCUs to be written to the BSC or SS device. Point 1 BHRs are executed after the BTU is received from the host and before the line has been scheduled for the I/O operation. The device command processor is the interface with the BHR mechanism for point 1. No BCUs are in error at this point.

#### *Point 2*

Point 2 BHR is invoked during execution of certain initiator and terminator subtasks by the BHEXIT macro. Since BHRs are data-oriented, the only initiator subtask that invokes BHRs at point 2 is the write initiator. All terminator subtasks that represent termination of a read command invoke BHRs at this point. The subtasks include the common read terminator, the display service-seeking terminator, and the chain terminator (read entry point only). The following subtasks invoke BHRs at point 2 for BCUs that are in error: the 'write terminator', the 'read terminator' routine, the 'common read terminator', the 'display service-seeking terminator', the 'contact terminator', and the 'error retry' routine.

#### *Point 3*

The TPPOST routine is the interface for point 3. At this point all processing on the BCU has been completed and the BCU is ready to be sent to the host. The TPPOST routine puts the BCU on the point 3 BHR queue of the DVB. When the BHRs have completed processing, an XIO macro instruction is used to send the BCU to the host.

**Block-handler Control Blocks** Figure 10.3 shows the relationships of the control blocks associated with block-handler routines. The paragraphs that follow explain the function of each block. The BHR extension to the DVB exists for those devices specified to have block-handler routines associated with them. The extension reserves space for a pointer to the block-handler set. If a block-handler set is defined at generation time, the address of a block-handler set is assigned at the same time. The pointer is changed if the block-handler set for this device is changed via an optional control command. The BHR extension also contains the QCB for a BHR queue, which is used at point 3 if the device macro is coded with an operand of PT3EXEC=YES.

The block-handler set (BHS) contains pointers to the block-handler driver tables (BHD) that are to be executed at each of the three-points (or the BHS entry contains zero if no block-handler is defined for a point).

The block-handler driver table (BHD) defines the block-handler routines that are to be executed for each block-handler. Each entry contains a pointer to the BHR, control information related to the BHR, and a one-byte parameter or an address to a parameter list.

A block-handler set table (BST) has an entry for each block-handler set (BHS) defined in the NCP. Each entry contains control flags, plus the

address of the block-handler set (BHS). This table is used in modifying block-handler sets associated with particular devices.

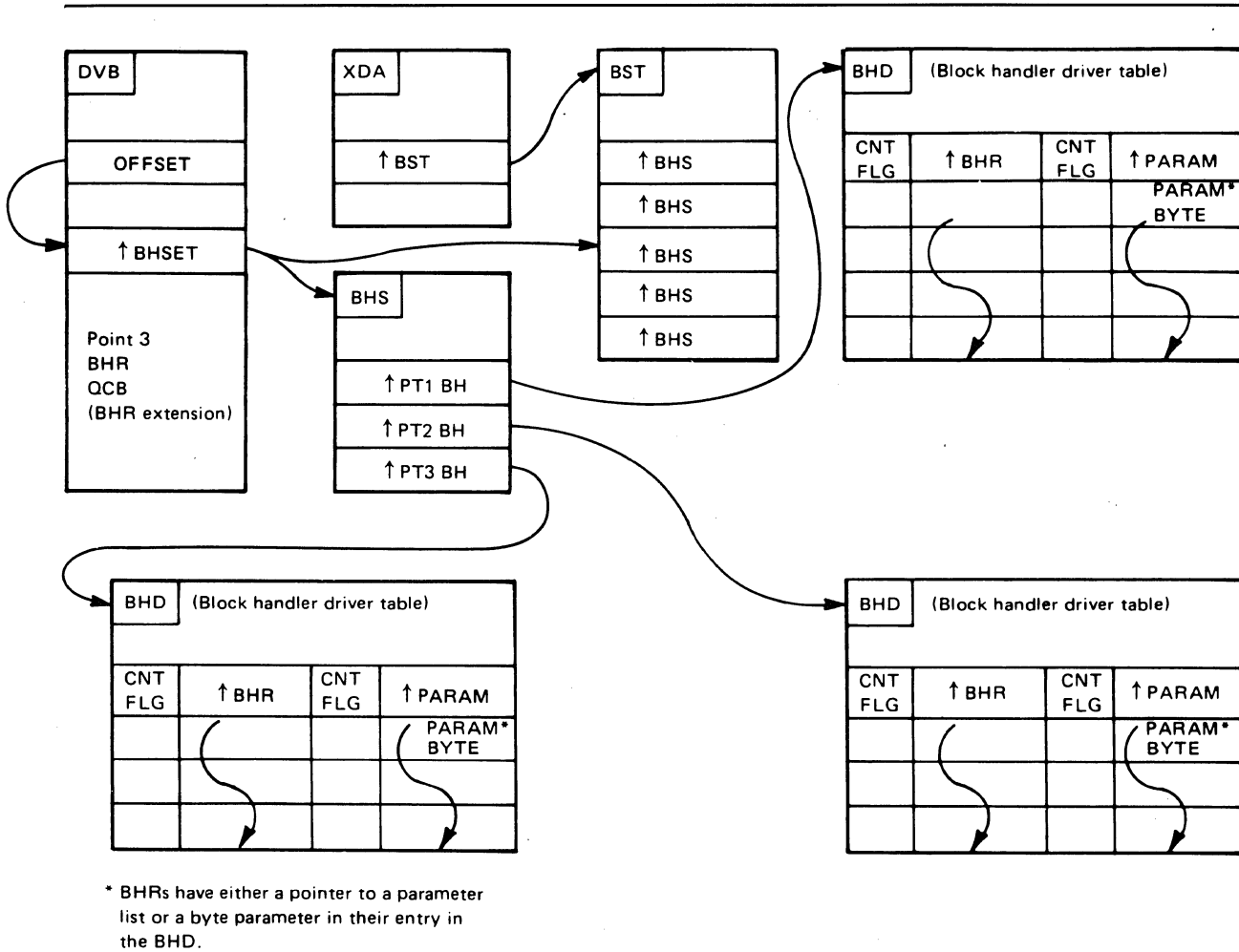


Figure 10.3. BSC/SS BLock-handler Control Block Relationships

The following information provides more detail on the control blocks used with block-handlers and block-handler routines.

*BHR Extension to the DVB*

Terminals that have BHRs associated with them have a DVB with a BHR extension. This extension contains a pointer to the block-handler set (BHS) for this terminal, and also contains the point 3 BHR QCB (if PT3EXEC=YES was coded on the CLUSTER, TERMINAL, or COMP macro).

The DVB address relating to BHRs is:

X'28' Offset to BHR extension

The two fields in the block-handler extension to the DVB (BHR) are:

X'00' Pointer to the block-handler set (BHS)

## X'04' Point 3 QCB

*Block-handler Set (BHS)*

The block-handler set (BHS) contains pointers to the one, two, or three block-handlers that are to be executed for this set. If a block-handler is not defined, the address pointer contains zeros. If a block-handler is defined, the pointers are addresses of a block handler driver table.

The following are the fields of a block-handler set:

X'00' Pointer to point 1 BHD

X'04' Pointer to point 2 BHD

X'08' Pointer to point 3 BHD

*Block-handler Driver Table (BHD)*

The block-handler driver table (BHD) defines the block-handler routines (time and date, edit, and user block-handler) that are to be executed, at a point, for a block-handler. The BHD is created by the STARTBH, DATE-TIME, EDIT, UBHR, ENDBH macro grouping. Each entry in the BHD contains a pointer to the BHR, control information, and parameter information.

The BHD contains one entry for each coded macro of DATETIME, EDIT, or UBHR, with the following fields:

X'00' Pointer to the block-handler routine

X'04' Pointer to parameter list for edit

The parameter list for the EDIT BHD contains the following fields:

X'00' Backspace character

X'01' Flags

X'02' Record descriptor masking configuration

*Block-handler Set Table (BST)*

The block-handler set table (BST) contains an entry for each block-handler set defined in the NCP generation. The address of the BST is in XDA at X'7F4'. This table is used for dynamic block-handler set association.

The block-handler set table (BST) contains one entry for each block-handler set (BHS) defined. Each entry contains an address of a block-handler set (BHS).

**User Block-handler Routines** User block-handler routines are identified in a block-handler by the UBHR macro. The user routine must be preassembled in the library identified by the USERLIB (and QUALIFY) operand of the BUILD macro.

The user routine is written with 3704 and 3705 communications controller instructions, assembler instructions, and internal macros. *IBM 3704 and 3705 NCP Instructions and Supervisor Macros* (SR20-4512) provides user coding information.

At entry to a user routine, register 2 contains the address of the QCB which contains the block to be processed. The NCP abends if a valid BCU is not available when the user code returns control to the NCP.

### **Multiple Terminal Access (MTA)**

The multiple terminal access (MTA) feature of the network control program allows the communications controller to communicate with several common types of SS terminals over a single switched network port. When a terminal calls in over a line identified at NCP generation as an MTA line, the NCP identifies the type of terminal and the transmission code being used, and initializes the line's adapter control block (ACB) accordingly. The NCP then communicates with the terminal normally until the session ends.

The types of terminals supported by MTA are:

- IBM 2741
- Western Union TWX
- IBM 2740 transmit control (with or without checking)
- IBM 1050
- IBM 2740 basic (with or without checking)

The NCP terminal identification procedure always tests for terminal type (of terminals defined in the NCP system), in the order listed above.

**Multiple Terminal Access (MTA) Control Blocks** In order to identify the type of terminal and to establish the appropriate operating parameters (speed and transmission code) once the terminal is identified, the NCP uses several tables. This section describes the function and relationships of these tables.

#### *MTA GROUP, LINE, and TERMINAL*

The actual line interface definition requires a GROUP, LINE, and TERMINAL macro definition. The TERMINAL macro has an operand of TERM=MTA. These macros create the line group table (LGT), line control block (LCB), adapter control block (ACB), and device base control block (DVB) which are used for the initial connection. The incoming MTA call is received using these control block definitions.

#### *MTA List*

The MTA list is a table of one-byte entries, each entry representing one of the five terminal types that can call in on an MTA line. The list consists of a group of entries for each combination of terminal types on MTA lines in the telecommunication subsystem. The entries in a group are always in the order in which the NCP tests for terminal type. The following values represent the given terminal type in the MTA list:

X'00'	2741
X'01'	TWX
X'02'	2740 transmit control
X'03'	1050
X'04'	2740 basic

A group of entries is delimited by a byte containing the value X'FF'.

The MTA identification routine uses the MTA list to determine which types of terminals to test for. The initial offset into the list is in IOBSTOFS field of the line's IOB.

The multiple terminal access (MTA) identification routine uses the MTA list as an index into the code for testing the terminal type. The routine sets a timeout at the beginning of each test. If the terminal does not respond before the timeout expires, the MTA routine is reentered and the next MTA list entry is used to test for the next terminal type. If the delimiter entry X'FF' is reached, the routine disconnects the line and ends the command.

The sequence for terminal checking occurs in the following manner:

The MTA identification routine checks for both 2741 and TWX at the same time (if either terminal type is specified in the MTA list). The routine sends an EOT to the device and sets a timeout. If the terminal responds with an EOA, the routine assumes the terminal is a 2741. If leading graphics are present and the response is the WRU character, the routine assumes a TWX terminal.

To test for 2740 transmit control, the MTA routine sends a slash-space (/b) character sequence. If the terminal responds with an EOA, the routine assumes the terminal is a 2740 with transmit control. If the response is a NAK, a 1050 terminal is implied.

To test for a 1050, the MTA routine must poll the terminal. The routine fetches and sends the polling characters for each device on the 1050 polling list until it receives a response. If the response ends in EOT, the routine disconnects the line and ends the command.

The 2740 basic test consists of transmitting a BID message to the terminal. The message, sent in both EBCD and correspondence code, prints at the terminal and indicates that the operator is to enter the MTA sign-on sequence (covered later in this manual).

When the terminal type (but not the transmission code) has been identified, the control pointer from the original line group table (LGT) can be updated to the stand-alone line group table (LGT). The two tables were created by GROUP macros defined for each MTA terminal type.

As an example, consider a telecommunication subsystem with three MTA lines. One line has all five terminal types; the second has 2741 and 1050 terminals; and the third has TWX, 2740 transmit control, and 1050 terminals. The MTA list for this NCP has the format shown in Figure 10.4.

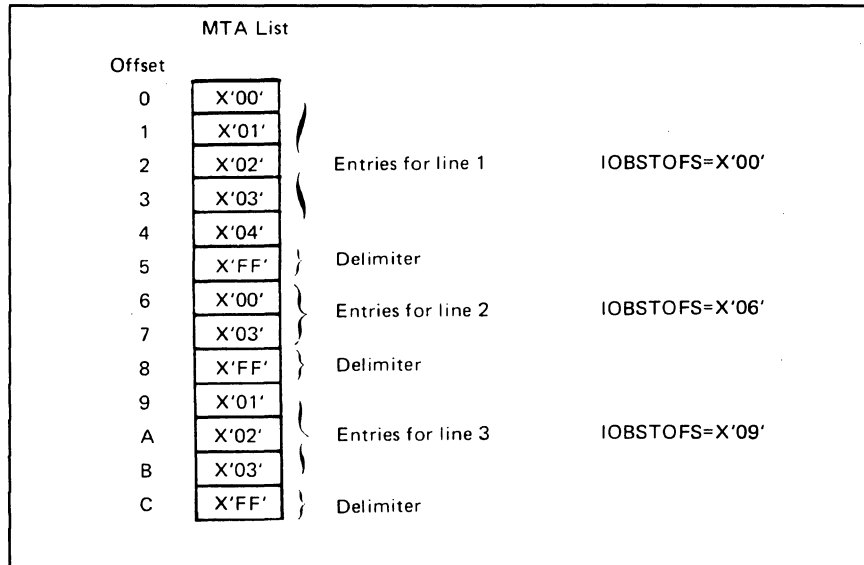


Figure 10.4. MTA List Format

The MTA list is defined by MTALIST macros coded for NCP generation.

*MTA Line Group Table (LGT)*

A GROUP macro, creating a line group table (LGT), is defined for the MTA line, plus one line-group table per MTA terminal type which calls in. The MTA identification routine initially uses the group definition associated with the MTA line. As soon as the terminal type and transmission code are identified, the pointer is changed to the specific LGT for the terminal type.

*Line Control Selection Table (LCST)*

The line control selection table (one per NCP) is used by the multiple terminal access (MTA) identification routine to initialize the line's character control block (CCB), once the routine has identified the type of terminal calling in. The table is also used to establish CCB parameters when the NCP calls a device on an MTA line.

The LCST may contain up to sixty-three 16-byte entries, each representing a particular set of operating parameters for some MTA device (or devices) in the telecommunication subsystem. The first entry in the LCST is used by the MTA identification routine during the identification process and does not represent a particular type of device.

The parameters in an LCST entry are those that can vary for terminal type, transmission code, or individual device. These parameters include such variables as line speed, carriage return rate, translate table addresses, size of print line, and error retry limits.

A series of MTALCST macros is coded for NCP generation to define the LCST entries.

Once the MTA identification routine has identified the terminal type calling in, the routine determines which LCST entry to use by referring to a list of valid LCSTs for that terminal type. One list exists for each possible combination of terminal type and transmission code. The terminal operator must

enter a sign-on sequence to identify the correct terminal/code list and entry within the list. Each list contains up to ten halfword pointers to valid LCSTs for the combinations which that list represents. The sign-on sequence may include two identical digits, representing the number of the list entry to be used, relative to the beginning of the list for this terminal/code type. If the number is omitted, the routine assumes the first entry is to be used.

As an example, assume that the terminal has been identified as a 1050. The terminal operator enters sign-on sequence, /"44 CR EOB. The /" is unique for each type code, which identifies the code as BCD. Now that the terminal type and code are known, the digits '44' indicate that the MTA identification routine is to use entry 4 in the list of LCST pointers for 1050 BCD terminals. All 1050 terminals are checked terminals; however, the EOB, rather than EOT, provides the definition of a terminal with checking verses nonchecking features. Once the appropriate pointer to an LCST entry is located, the control block fields can be filled in. The relationship is shown in Figure 10.5.

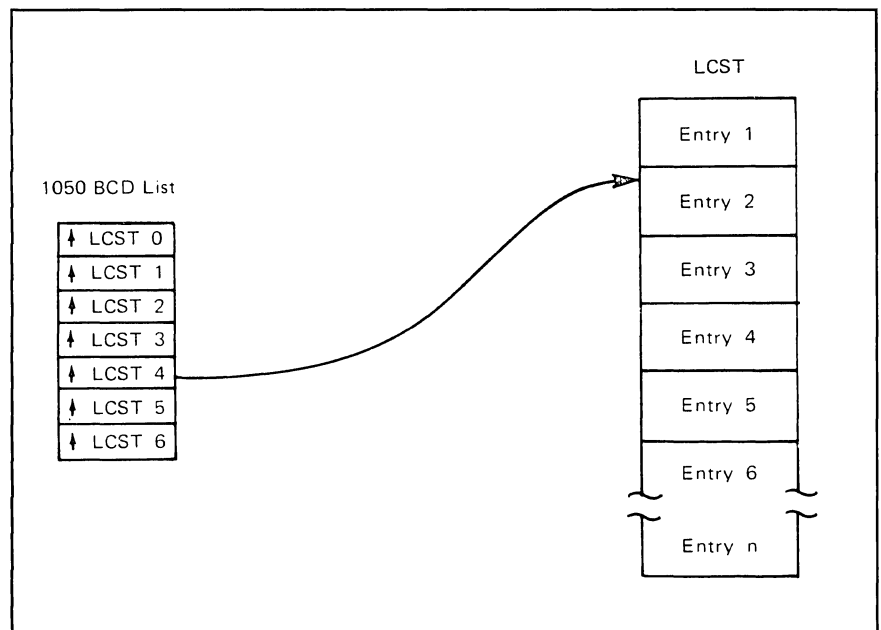


Figure 10.5. LCST Entry Relationships

The relationship of the pointers in the list to the LCST entries which the pointers represent is established during NCP generation, according to the parameters specified for the MTA lines and devices. MTATABL macros are used to define these lists for NCP generation.

#### *1050 Polling List*

When testing for a 1050 terminal, the MTA identification routine must poll the terminal. For this purpose, a single polling list exists in the NCP for all 1050 terminals on all MTA lines. The polling list contains a halfword pointer to the polling characters for each such device. The MTA identification routine goes through each entry in the polling list until it receives a positive response from the device or until it exhausts the list. In the latter case, the routine assumes that the device is not a 1050 and goes on to test for the next terminal type. Each polling attempt which is not successful requires a polling



timeout; if many sets of 1050 polling characters are in the list, with a one-minute timeout per polling attempt, the sign-on could take excessively long.

The entries in the 1050 polling list are specified with the MTAPOLL NCP generation macro.

### **BSC/SS Processor Summary**

The BSC/SS processor is that part of the NCP that processes requests for BSC or SS resources. The first BSC/SS processor component to receive control is the BSC/SS system router.

When 'path control out' passes a PIU to the BSC/SS system router, the system router branches to the PIU/BTU converter to convert the PIU to a BCU. From this point the BSC/SS processor component flow is as follows:

Upon receiving the BCU from the converter, the system router enqueues the BCU for the device command processor or nondevice command processor for line-oriented control commands. The device command processor passes control to the line work scheduler. The line work scheduler selects a chain of subtasks and passes control to the line I/O task. The communications control program gets control and sets up for the start of level 2 activity. The character-service program (or the bit-service routines, if present) transfers data between the NCP buffers and the communications scanner. Upon completion of the level 2 activity, control returns to the CCP and then to the line I/O task. The BCU is converted to a FID0 PIU and XPORTed to the channel queue.

### **BSC/SS Processor Quiz**

The storage listing in Appendix C is required for the following quiz. Do not refer to the solution in Appendix B until you have answered all of the questions.

1. The BSC/SS processor receives what type of FID from 'path control out'?
2. What is the FID converted to before BSC/SS processing modules may process the buffers?
3. The system router enqueues the buffers from the host on one of two types of queues. What are the queues?
4. How many BSC and/or SS lines are defined in Appendix C?
5. How many BSC and/or SS resources are defined in Appendix C?
6. Using the formatted buffers in Appendix C, analyze the buffers from X'19E24' through X'19F08', X'19FA0' through X'1A414', and X'1A5DC' to determine PIU origin, destination, command, and element affected by the command.
7. Using the formatted buffers in Appendix C, analyze the buffers from X'1B208', X'1B2EC' through X'1B3D0', and X'1B4B4' to determine PIU origin, destination, command, and element affected by the command.

Criterion

If you missed more than two questions, you should review this topic.

# Service Aids and Diagnostics

**Objective** Upon completion of this topic, the student should be able to identify the NCP service aids and diagnostic aids.

**Purpose of Service Aids and Diagnostics** Service aid facilities and panel support routines provide the means for isolating and/or interrogating NCP failures. The NCP supports several functions to aid in problem determination and diagnostics. This topic explores the aids and diagnostic facilities available with the NCP, describes their implementation, and discusses their output.

For additional information, refer to *IBM Advanced Function NCP and Related Host Traces* (SR20-4510).

**Dynamic Panel Display** The NCP allows you to display dynamically the following types of information on the 3704/3705 control panels:

- Communication scanner interface control word (ICW)
- Contents of external registers
- Contents of a halfword of 3704/3705 controller storage

Dynamic display functions are selected by setting the display/function select and storage address/register data switches on the panel and pressing the interrupt key.

NCP uses a group of routines to process level 3 interrupts from the panel. The panel control block (PCB) is the common data area for all panel routines.

The panel routines are provided in one of the following:

*Guide to Using the IBM 3704 Communications Controller Control Panel* (GA27-3086)

*Guide to Using the IBM 3705 Communications Controller Control Panel* (GA27-3087)

**Line Test** The line test facility allows the user to address, poll, dial, and transmit to or receive from a terminal. Testing is initiated by entering variables through the 3704/3705 control panel. The status of the line resulting from the test is displayed in the panel lights. The line test control block (LTS) contains control information for panel test operations. See one of the two control panel guides mentioned above (under 'Dynamic Panel Display') for operating instructions.

The line test facility is included in the NCP whenever SS or BSC devices are defined for the generation.

### **Address Trace**

The address trace facility allows the user to select any combination of up to four registers and storage halfwords, contents of which are to be recorded each time data is loaded from or stored into a specified 3704/3705 storage address at a specified program level. The NCP records the trace data in a trace table within controller storage. The contents of the trace table can be displayed on the control panel or examined in a dump listing. The address trace control block (ATB) has the address trace control information within it.

Operating procedures are given in one of the two control panel guides identified above (see the section on 'Dynamic Panel Display').

The TRACE operand of the BUILD macro specifies whether the address trace facility is to be included in the NCP and specifies the size of the trace table.

### **Channel Adapter Trace**

Channel adapter trace is an optional diagnostic and debugging aid that stores certain fields from the channel control block, type 2 or 3 channel adapter (CHB) or channel operations block, type 1 or 4 channel adapter (COB), in a trace table. An entry is made for channel adapter spurious interrupts, channel adapter level 3 interrupts, and level 1 interrupts caused by channel adapter errors.

The trace is included in the NCP by reassembling SYSCG006 and specifying the TRACE operand which indicates the number of trace entries desired.

This trace cannot be activated or deactivated, only included or excluded. The trace involves significant overhead, especially with a type 1 or type 4 channel adapter. The trace should not be included except in cases where a suspected or known channel error must be isolated.

### **Line Trace**

The line trace facility is a diagnostic and debugging aid that stores certain fields from the ICW (or bit control block) each time a level 2 interrupt occurs on a designated communication line. Line trace is activated and deactivated by network control commands from the host. Only one line at a time may be traced. If the line is duplex, both legs are traced. The fields traced are the line control definer (LCD), primary control field (PCF), secondary control field (SCF), and the parallel data field (PDF). A timer field is also included. The line trace control block (LTCB) contains pertinent information about the trace.

An explanation of the line trace fields is available in *Advanced Function NCP and Related Host Traces* (SR20-4510).

### **Error and Statistic Recording**

NCP has the ability to create records for the miscellaneous data recorder (MDR). There are two types of records:

1. MDR records are built in the check-record pool (CRP) for adapter checks, program checks and unresolved interrupts, then are sent to the host on the next level 3 timer interrupt.
2. MDR records are dynamically built for line statistics and permanent line errors and are immediately sent to the host.

**Online Tests** The online tests (a user selected option) provide the IBM customer engineer with online maintenance capability. Testing is performed by one or two routines depending on the type of resource to be tested. The online line tests (OLLT) check BSC/SS lines and SDLC links. The online terminal test (OLTT) checks BSC/SS devices. Both tests are controlled by the terminal online test executive program (TOLTEP) which resides in the host.

To include this facility in NCP, code the OLT=YES operand in the BUILD macro.

**Abend** Programming errors detected during execution of supervisory and nonsupervisory code of the NCP cause an abnormal end of program execution. The examination of abend codes within an NCP dump can help in locating the error. The optional abend service aid extends detection of programming errors to the NCP supervisor, thus causing the program to terminate before a supervisor error can be propagated into nonsupervisory portions of the program. The abend service aid stores an abend code at X'760' in controller storage and the controller is hard-stopped.

To include the abend service aid for programming levels 1 through 4 of the NCP, code ABEND=YES in the BUILD macro.



# Appendix A

## PIU Command Sequence

### PIU Command Sequences

The following SRL references may be of assistance:

*IBM 3704 and 3705 Program Reference Handbook (GY30-3012)*, Section 4: NCP Network Commands

*IBM 3704 and 3705 Communications Controllers, Network Control Program/VS Program Logic Manual (SY30-3013)*, Appendix A: Network Commands

This section describes the command sequence to be followed for activation and session initiation for switched SDLC. Each entry in the 'switched' sequence is marked with an asterisk; you can determine the 'nonswitched' SDLC sequence by skipping those entries. In addition, this section identifies the general processing within the NCP and specifies the NCP control block changes made to record command processing.

If the correct operation takes place, the following command sequence occurs on a PIU trace:

1. Initialization complete -- from NCP physical services to SSCP

This message, generated at the completion of NCP initialization, is placed on the channel intermediate queue of the channel control block (COB or CHB) for transmission as the first message to the host. No response is requested.

2. Activate physical -- from SSCP to NCP physical services

This command is enqueued on the physical services block (PSB) connection point manager (CPM-OUT) queue. The processing sets the 'session established' bit to 1 in PSBPSTAT. A response is provided to SSCP from PSB CPM-IN and XPORTed to the channel intermediate queue of the channel control block (CHB or COB).

Configuration restart specifies a warm or cold restart. The cold restart results in a new initial program load or in initialization of a loaded NCP which has not been previously activated. Cold restart results in commands being directed only to the network addresses which are to be activated (ISTATUS=ACT). A warm restart to a previously activated NCP has a network command addressed to every network resource: an 'activate' to network addresses to be initially active, and a 'deactivate' to each network address to be inactive. The active or inactive status of each network addressable resource is maintained in the disk configuration data set of VTAM. A warm restart allows an NCP with partitioned emulation program (PEP) to be restarted without affecting the emulation lines by reloading.

The response in the request/response unit (RU) contains the name of the NCP. This name is the NEWNAME operand value from the BUILD macro, which was obtained from the physical services block (PSB) at PSBLDID.

NOTE: This command completes the first level of sessions between SSCP and NCP.

3. Start data traffic -- from SSCP to NCP physical services

This command is enqueued on the PSB CPM-OUT queue. The 'data flow enabled' bit and 'data flow active' bits of PSBPSTAT are set to 1. A response is provided to SSCP from PSB CPM-IN and XPORTed to the channel intermediate queue of the CHB or COB.

4. Set control vector -- from SSCP to NCP physical services

This command is optional (from NCP requirements) during activation. In the request unit (RU) byte 5, a value of 01 identifies this as the command which provides the time and date to be stored in the time and date control block. A response from PSB CPM-IN is sent to the host via the channel queue.

5. Set control vector -- from SSCP to NCP physical services

This command is optional (from NCP requirements) during activation. In the request unit (RU) byte 5, a value of 05 identifies this as the command which changes the channel delay from the user-coded value of zero for the duration of the bring-up sequence. A response from NCP CPM-IN is sent to the host.

The same command is used to change the channel delay back to the original value after initialization is complete; the present VTAM support of this command resets the delay after the 'activate link' command responses are received.

6. Activate link -- from SSCP to NCP physical services

A command for each defined link is sent to NCP physical services CPM-OUT. Each command identifies the network address of the link to be activated in the request unit (RU) field of RU1NA. The PSB CPM-OUT triggers the link control block (LKB) which defines the link. The processing initiates the link scheduler code (level 3 NCP code) to search the service order table for that link for work to be done. For a nonswitched link, the modem is enabled. For a switched link, the modem is not enabled until a 'dial' or 'answer' command is processed. The active status of the link is provided in the LKB in LKBSTAT. The task address at LKB LKWTSKEP is changed from the run initiator to the address of the run terminator. (The change of the task address is referred to later under 'dial', 'answer', and 'contact' commands.) Finally, when processing is complete, the PSB CPM-IN is triggered to send a response to SSCP.

The link scheduler is now active for this line definition. A timer queue is initiated for the PAUSE operand value before the link scheduler searches the service order table (SOT) for work to be performed. If the link scheduler completes a pass through the service order table in less than PAUSE value time, the LKB is placed on the timer queue. Service is suspended on this link until the time value expires or outbound data is enqueued for this link.

A negative response to an 'activate link' command normally indicates a modem problem, as only the 'enable' is processed on the link interface.

An activate line command to a BSC/SS line is followed by a set mode command for each device on the line. If the line is not multipoint, a buffer is allocated for input to the DVB work QCB. The BSC/SS BTU commands of Invite, Contact, Read, Write, and Discontact are valid.

7. \* Answer or dial -- SSCP to physical services CPM-OUT (switched line only)

On a switched link the line must be enabled for answering incoming calls or provided with a telephone number for outgoing calls. Either command is logical following an 'activate link' command. The 'dial' or 'answer' is addressed to physical services with the link identified in the request unit (RU) field of RU1NA. The 'dial' or 'answer' request is acknowledged by physical services CPM-IN and a connection is then attempted.

The connection for 'answer' enables the link for an incoming call. The 'dial' connection consists of using the autocall unit to dial the telephone number provided in the 'dial' command request unit (RU), starting at RU byte 9. When the connection is established, an SDLC command of 'exchange ID' (XID) is transmitted to the physical unit with an address of FF (general poll). The XID response provides the terminal ID, and the LKB task at LKWTSKEP (run terminator task) is triggered. The task determines that a connection has been made, triggers physical services CPM-IN to send an 'off-hook' command to SSCP, and restarts the link scheduler run initiator.

The terminal ID is a 48-bit value with the following fields:

0	Reserved
x	Physical unit type (1 or 2)
00	Reserved
xxx	ID block, hardware by device type (example: 3790 006)
xxxxx	ID number, hardware or control program specified

The 'dial' or 'answer' status is indicated by bit settings in the LKB field of LKBSWST.

If a failure occurs during a callin or dial callout, the NCP physical services creates an 'inoperative' command with the failing link network address identified in the request unit (RU) field of RU1NA. An explanation of the 'inoperative' command is covered later in this appendix.

8. \* Off-hook -- physical services to SSCP (switched link only)

'Off-hook' informs the SSCP that a physical connection has been established as a result of an 'answer' or 'dial' command. The network address of the link is carried in the request unit (RU) at RU1NA, and the terminal ID received by the SDLC XID response is sent in the RU in bytes 5-10. No response is requested by physical services.



9. \* Set control vector PU -- SSCP to physical services (switched link only)

The original definition of the physical unit on this switched link was given to provide an unformatted control block for any switched physical unit calling in or being called. The 'set control vector PU' (RU byte 5 with a value of 3) provides the values for the CUB control block. The data provided to initialize the control block starting at RU byte 6 is as follows (see Appendix A of PLM):

byte 6	SDLC station address
byte 7	Physical unit type
byte 8	Reserved
byte 9	MAXOUT value
byte 10	PASSLIM value
byte 11	Immediate or deferred error recovery
byte 12-13	Reserved
byte 14-15	MAXDATA value

Physical services initializes the CUB control block and sends an acknowledgement to SSCP.

10. Contact -- from SSCP to NCP physical services

The 'contact' command is addressed to NCP physical services PSB CPM-OUT. The network address to be contacted is provided in the request unit (RU) at RU1NA. The common unit physical block (CUB) is located and the 'set normal response mode' bit at CUBSSCP is set to 1. The PSB CPM-IN sends a response to SSCP acknowledging the PIU, but not acknowledging that the device was contacted.

The link scheduler, which was started for this link by the 'activate link' command, placed the LKB on a timer queue. When the timer interrupt occurs, the link scheduler searches the CUBs on that link for work. Each CUB is initially defined as being in the disconnect mode (CUB field of CUBSSCP) and the poll skip flag at CUBSSCF is on. Normal servicing is still indicated as being disconnected; however, the link scheduler looks for command processing after the normal servicing sequence.

When the 'set normal response mode' bit is found, the link scheduler sends an SDLC command of SNRM on the link to the device defined by the CUB. If a timeout occurs before a response, the 'set normal response' bit is left 'on'. With an SNRM bit 'on', an attempt is made to contact one of the CUBs on this link each time this link is serviced for 'contact poll' commands. If a response is received to the SDLC SNRM, the LKB task at LKWTSKEP of the LKB is triggered. This task is the run terminator task set up by the 'activate link' command. The 'run terminator' triggers the PSB CPM-IN to send in the 'contacted' command from NCP PSB to SSCP. Also, the link scheduler is restarted (as if a new 'activate link' were issued), and again the task address of the run terminator is in the LKB task address.

NOTE: If the physical unit contacted is type 4 (remote NCP), the bring-up sequence depends upon the response to the SNRM SDLC command. If 'request initialization' (RQI) was received, the 'load initial', 'load data' (repeated), 'load final' take place. The 'contact' command is retried until an SNRM response of 'nonsequenced acknowledgement' (NSA) is received. When an NSA is received, initialization of the remote begins with the first item of this list ('activate physical' to the remote NCP physical services).

11. Contacted -- NCP physical services to SSCP

The 'contacted' command was initiated by a 'nonsequenced acknowledgement' (NSA) SDLC reply from a physical unit as a response to the 'set normal response mode' (SNRM). This command provides the network address of the physical device contacted in the request unit (RU) at RU1NA.

This information sent to SSCP allows the physical unit to be sent the next command (an 'activate physical') to establish the next level of session.

12. Activate physical -- SSCP to CUB physical unit process queue

The 'activate physical' command is enqueued to the CUB physical unit process queue. This command is the first command not addressed to NCP physical services and is the first which may be sent on a link to a physical unit. If the device is a type 2 physical unit, the command is transmitted to the physical unit. If the device is a type 1 physical unit, the command is processed by the NCP and is not sent to the physical unit.

The processing of the command results in setting the 'processing session initiating request' bit of CUBSTAT in the CUB control block to 1. The command format is modified from FID1 to FID2 and placed on the CUB link outbound queue (CUBLOBH); this is the queue searched by the link scheduler (started by an 'activate link' command) for data to be transmitted to the physical unit.

When the command has been processed by the physical unit and the response received by the link scheduler polling the physical unit, the response is enqueued on the CUB link inbound queue, triggering the CUB link inbound task. The task converts the PIU from FID2 to FID1 and checks for the type of response. If a positive response is received, the 'processing session initiation request' bit is set to 0, and the 'session established' bit is set to 1 in CUBSTAT of the CUB. If a negative response is received, the 'processing session initiation request' bit is set to 0. The response is XPORTed to the channel queue to be sent to SSCP.

The response request/response unit (RU) contains the name of the control program generation name for type 2 physical units.

For the type 1 PU, the 'session established' bit is set to 1 by the physical unit processing queue task, and the response to SSCP is created by the NCP.

NOTE: This command completes the second level of session (SSCP/CUB).

13. \* Assign network addresses -- SSCP to physical services (switched link only)

The logical unit definitions for a switched SDLC link are created by the LUPOOL macro, and the network addresses assigned are the highest addresses in the NCP; that is, the last entries in the resource vector table (RVT). The logical units are not assigned to any switched link or physical unit at generation time. The CUB has a switched extension of four bytes which contains the maximum count of entries and an address pointer to a logical unit vector table (LUV). The definition on the PU macro of MAXLU creates the LUV and pointer to the LUV. This command initializes the LUV with the addresses of LUBs from the LUPOOL.

The fields in the 'assign network addresses' request unit are:

bytes 3-4 Network address of the physical unit  
 byte 5 Number of LU addresses to be assigned  
 byte 6 X'80'  
 bytes 7-n Network (LU) addresses to be assigned

The number of addresses to be assigned may not exceed the entries in the LUV table (MAXLU operand of PU), and the addresses of LUs assigned are allocated from available entries in the logical unit pool (LUPOOL). When the logical unit block (LUB) address entry is provided in the LUV, the address pointer to the CUB is provided at LUBCUB field in the LUB.

Physical services builds a response to SSCP when the command has been processed and the network addresses have been assigned in the LUV.

14. \* Set control vector LU -- SSCP to physical services (switched link only)

The 'set control vector LU' command to NCP physical services provides the LU network address in the request unit (RU). A separate 'set control vector LU' command must be processed for each logical unit (LUB) to be used during a switched connection.

The command provides the following data:

byte 6 - LUB network address  
 byte 7 - n pacing count  
 byte 8 - m pacing count  
 byte 9 - Dispatching priority of APPL/LU CPM-OUT task (BATCH operand of LU)

The logical unit block (LUB) is now initialized with appropriate definitions and pointers which are generated for nonswitched LUBs.

## 15. Activate logical -- SSCP to LU/SSCP process queue

The 'activate logical' command is enqueued on the LU/SSCP process queue of the logical unit control block (LUB). The LUB CPM-OUT task checks the command type, turns the 'processing activate logical' bit to 1 in LUBCPSET of the LUB, converts the command from FID1 to FID2 (or FID3), and places the command on the CUB link outbound queue for the link scheduler to find and transmit. Except for SDLC 3270, an 'activate logical' is processed by the link-attached physical unit. All commands for the SDLC 3270 are processed by the network control program.

The PIU response to polling the physical unit is enqueued to the CUB link inbound queue. The CUB link inbound task dequeues the FID2 (or FID3), converts it to a FID1, and branches to the CPM-IN task of LU/SSCP to process the input. A positive response requires the 'processing activate logical' bit to be set to 0 and the 'session established' bit to be set to 1 in LUBCPSET of the LUB. The response is then XPORTed to the channel queue to be sent to SSCP in the host.

NOTE: This command completes the third level of sessions (SSCP/LU). No additional session is started until an application program is connected to be logical unit.

## 16. Initiate self -- from LU to SSCP (Logical unit initiated logon only)

The 'initiate self' command is received from the polled physical unit and placed on the CUB link inbound queue. The CUB link inbound task dequeues the PIU, converts the FID2 or FID3 to FID1, and determines whether the PIU is from a defined LU which has a LU/SSCP session. The PIU is XPORTed to the channel queue to be sent to SSCP. No processing occurs. The host receives the PIU and processes the request. The request unit (RU) contains (1) the name of the application (VTAM APPL statement label, TCAM message handler label) to which logical unit wants to be connected, or (2) text used as an entry to the interpret table.

The 'initiate self' is required only if the connection is initiated from the network logical unit. A host application initiates the connection with a 'bind' command.

## 17. Bind command -- host application to LU

The 'bind' command is sent from the host application to the APPL/LU process queue of the logical unit block (LUB). The APPL/LU process queue task dequeues the request, sets to 1 the 'processing bind' bit of LUBAPSET of the LUB, converts the FID1 to FID2 or FID3, and places the PIU on the CUB link outbound queue for the link scheduler to transmit.

The response to 'bind' command is received and queued on the CUB link inbound queue. The CUB link inbound task dequeues the FID2 or FID3, converts it to a FID1, and branches to the APPL/LU CPM-IN for processing. If the response is positive, the 'processing bind' is set to 0 and 'session established' bit is set to 1 in the LUBAPSET field of the

LUB. The response is sent to the host application by XPORTing it to the channel intermediate queue of the CHB or COB.

NOTE: This command completes the fourth and last level of sessions (application/LU).

#### 18. Start data traffic -- from host application to LU

The 'start data traffic' command is required by specific logical unit types. If 'start data traffic' is not required, data and subsequent commands immediately follow the 'bind' command.

The 'start data traffic' and all subsequent commands and data transfers are placed on the LUB APPL/LU process queue for converting from FID1 to FID2 or FID3 and placed on the CUB link outbound queue for transmission to the SDLC terminal. If the device is a type 1 physical unit, the sequence number processing is performed by NCP. If the PIU is text, the PIU is checked for VPACING from the host, and for PACING control from NCP to the logical unit. Data traffic is also segmented as required by the MAXDATA operand of the PU.

All text and data from the logical unit are received and placed on the CUB link inbound queue, converted to FID1, processed to identify which logical unit (or the CUB) the FID1 is from to locate the LUB control block, and processed by type. A command or command response is processed as required and text is checked for PACING responses or requirements to carry a VPACING response on to the host. After required processing, the PIU is placed on the channel queue for transmission to the host.

NOTE: Two things which may not be initially apparent may occur during data transfer:

- (1) An 'isolated pacing response' (IPR) is sent from devices to the NCP, or from the NCP to the host. These IPR responses have the FME/RRN bits of 0, but pacing bit of 1 to request more data. This condition occurs whenever a outbound PIU carries a pacing request without requiring an FME/RRN response.
- (2) A pacing response resets the pacing counter. Therefore, if pacing of (2,1) is coded, the first PIU carries the pacing request. If the response is returned before a second PIU is processed, the second PIU becomes a 'first' PIU (carrying the pacing request) because the pacing counter was reset. If data traffic is not grouped in some manner (as in chaining), it appears that pacing is (1,1).

This command completes the initialization of the session. The last level of session could be ended by a 'terminate self' from the network logical unit followed by an 'unbind' or an 'unbind' initiated by the host application. A new 'bind' from a different or the same host application could initiate a new fourth level session without ending other levels. The switched support requires a full sequence of 'unbind', 'deactivate logical', 'free network addresses' (free LUBs to LUPool and clear LUV pointers), 'deactivate physical', 'disconnect' (which sends SDLC 'set normal response mode' (SDRM) for a 'nonsequenced

acknowledgment' (NSA), and 'abandon connection'; and then a new 'dial' or 'answer' command may be issued for that switched interface.

A PIU trace provides the above sequence, and a formatted control block dump of NCP provides the bit settings to identify the levels of commands in process or completed.

19. Inoperative -- from NCP physical services to SSCP

The 'inoperative' command may be required at any point in the command sequences after the 'activate link' command. After the 'activate link' command, an 'answer', 'dial', or (nonswitched link) 'contact' command is issued by SSCP. If the request is for a valid network address in proper sequence, that command is immediately acknowledged with a positive response. The method of indicating an abnormal end or break in the processing on a link is for NCP physical services to send an 'inoperative' command to SSCP.

The 'inoperative' command identifies the network address in the request unit (RU) field of RU1NA of the link or resource. If the current command is to the link, the link address is carried in the request unit (RU) field of RU1NA and byte 5 of the RU contains a value of X'02'. If the current command is to a resource on the link, the resource network address is in RU1NA and byte 5 of the RU contains a X'01'.

No response is requested from SSCP; however, the host is expected to provide a sequence of commands to terminate, retry, or alternate path alternatives to the failing resource.



## Appendix B

### Problem Solutions

The following answers to the problems are based upon the generated values in the NCP dump listing in Appendix C.

#### Network Control Program Supervisor

1. No program levels were active.
2. General register 0 of groups 0, 1, and 2 are a halfword beyond an EXIT instruction, X'B840'. Group 3 register 0 is a fullword beyond the X'B840' and SVC qualifier; however, the true indicator of an active level 5 task is at X'0685', bit 1.

#### Channel Adapter IOS

1. The channel block is at X'6F48'. The halfword address pointer is at X'0772'. The address is at offset X'00' of the control block; the prefix area begins at X'6F18'.
2. A CHB, identified by XXCXTCHB (or XXCXTCOB for COB) at the address minus 8 of the channel control block (X'6F40').
3. Yes, at X'6F30' (CHB-X'18') in the channel hold queue is the last buffer sent to the host. No buffers are in the intermediate queue.
4. 04, from X'6FA0' at CHB plus X'58'.
5. 20 (X'0014'), from X'6FB8' at CHB plus X'70'.
6. 28 (X'001C'), from X'6FBC' at CHB plus X'74'.
7. 156 (X'009C'), from X'6FB4' at CHB plus X'6C'

#### Path Control

1. X'17A40', the SIT is immediately before the SVT, with a count of entries equal to the count of the maximum subareas plus 1. The address of the SIT is in the extended halfword direct addressables (HWE) at offset X'48'.
2. X'17A50', the SVT is immediately before the RVT, with a word of zeros as the first entry. All nonfirst entries are nonzero. The SVT end delimiter is a X'FF' in the leftmost byte of the last entry. The address of the SVT is in the extended halfword direct addressables (HWE) at offset X'4C'.
3. X'17A64', the address of the RVT minus 2, is at X'07E8'. The minus 4 offset of the RVT address is at X'17A60'.
4. 4, from the mask at X'0693' or X'0694'.
5. X'65', from the RVT count field at X'17A60'.



6. 3, from the leftmost bits used for identifying a subarea based on the network address of any resource, such as the PSB plus X'24', SCB or CUB plus X'1C', or LUB plus X'24'.
7. A contact command for a type 4 PU is the same as for a type 1 or 2 PU. The command is addressed to NCP physical services via SIT, SVT, and RVT with the type 4 PU 'local' RVT address in the RU1NA field.
8. An 'activate physical' command for a type 4 PU is addressed to the NCP Physical Services of the 'remote' NCP, using SIT and SVT control blocks to locate the SCB link outbound queue.

### Network Control Program Physical Services

1. The PSB is at X'19C60'. The address is the first RVT entry.
2. NCP04M from X'19C8C', PSB plus X'2C'.
3. Yes, bit 0 is 1 at X'19C8A', PSB plus X'2A'.
4. Yes, bit 1 is 1 at X'19C8A', PSB plus X'2A'.
5. 8, from X'19C88', PSB plus X'28'.
6. X'17', from address X'19C82', PSB plus X'22'. The counter contains the sequence number previously received (X'0016').
7. No, from offset 0 of the PSB at X'19C60'.
8. The following identifies the buffer address and command within the buffer:
 

X'19CA8'	'Initialization complete' from NCP to SSCP
X'19CF4'	'Activate physical' to NCP from SSCP
X'19D40'	'Start data traffic' to NCP from SSCP
X'19D8C'	'Set control vector' (time and date, RU byte 5, 01)
X'19DD8'	'Set control vector' (channel delay to 0, RU byte 5, 05)
X'19E24'	'Activate link' (network address X'3001')
X'1A628'	'Activate link' (network address X'303C')
X'1A674'	'Answer' (network address X'303C')
X'1A6C0'	'Set control vector', channel delay reset (RU byte 5, 05)
X'1A70C'	'Contact' (network address X'3019')
X'1A758'	'Contact' (network address X'302D')
X'1A7A4'	'Contact' (network address X'302F')
X'1A8D4'	'Contacted' (network address X'302F')
9. The first buffer contains an 'activate link' response. X'1A038' in RH byte 0 has a value of X'8F' with bit 5 indicating sense data is included. The four bytes of sense data are inserted following the RH and prior to

the RU. The system sense data of X'8002' is specified in *IBM 3704 and 3705 Program Reference Handbook* (GY30-3012), Section 8: NCP# Exception Responses as Path error: link failure. The network address of the link was X'3005' on the request, but has been overlaid in the response. A PIU trace would show sequence number X'0005' outbound with the network address and the response could be associated by the sequence number.

X'1A168' is an additional indicator of the link failure. The record maintenance statistics identifies the network address of X'3005' as the failing resource.

### Boundary Network Node

1. The CUBs at X'1836C' and X'1879C' have outstanding 'set normal response mode' (SNRM) from a 'contact' command. At offset X'1F' is a value of X'41'; the 4 is the 'set normal response mode' bit.
2. The CUBs at X'18830' and X'18C1C' are the CUBs with an established SSCP/PU session. At offset X'4C' is a value of X'80'; the leftmost bit is the 'session established' bit.
3. At CUB plus X'18' is the SDLC addressing/polling character. The CUB at X'18830' has an SDLC addressing/polling character of X'C5'. The CUB at X'18C1C' has an SDLC addressing/polling character of X'C4'.
4. The network address is at the CUB plus X'1C'. The network address of the CUB at X'18830' is X'302F', subarea 3 and element 2F. The network address of the CUB at X'18C1C' is X'303D', subarea 3 and element 3D.
5. The LUB of the X'18C1C' CUB is at addresses X'18CEC'. The LUB pointer can be located by the address at CUB plus X'54', at X'18C70'. The value X'14018C74' specifies a maximum of X'14' entries in the LUV at X'18C74'. The only active LUB in the LUV table is at X'18CEC'.
6. Yes, the LUB has a session with SSCP with a X'80' value at offset X'28' at address X'18D14'.
7. No, the LUB does not have a host/LU, indicated by a value of X'00' at address X'18D18'.
8. Pacing is (2,2), (1,1), and (7,7); the pacing values are at offset X'2E' and X'2F'.
9. The identifier of the LUB local address is at offset X'31'. The local address of the LUBs are 1, 2, and 3.
10. To be understood, the following buffers must be grouped according to channel allocation. In groups of four buffers per allocation, the first channel buffers are: X'1A758', X'1A920', X'1AA50', X'1AC18', and X'1AD94'.

The following entries identify the buffer address and command:

X'1A7F0' 'Activate physical', network address X'302F'

- X'1A83C' 'Activate Logical' (network address X'3030)
- X'1A920' 'Activate Logical' (network address X'3031)
- X'1A96C' 'Activate Logical' (network address X'3032)
- X'1A9B8' 'Activate Logical' (network address X'3033)
- X'1AA04' 'Activate Logical' (network address X'3034)
- X'1AA50' 'Activate Logical' (network address X'3035)
- X'1AA9C' 'Activate Logical' (network address X'3036)
- X'1AAE8' 'Activate Logical' (network address X'3037)
- X'1AB34' 'Bind' (network address X'3030')
- X'1AB80' Unformatted user data (network address X'3030')
- X'1ABCC' Unformatted user data (network address X'3030')
- X'1AC18', X'1AC64', X'1ACB0', and X'1ACFC' Unformatted user data, network address X'3030. This is one PIU in four buffers. This is the first PIU transmitted to the terminal. The format is FID2 (buffer offset X'12'). The terminal type is an SDLC 3270 which requires NCP to process all commands. Therefore, the previous commands were all in FID1 format with the response in the same buffer used for the request.
11. The following buffers provide the sequence for a switched SDLC sequence.
- X'1A628' 'Activate link' (network address X'303C')
- X'1A674' 'Answer' (network address X'303C')
- X'1B040' 'Off hook' (network address X'303C')
- X'1ADE0' 'Set control vector' (network address X'303D')
- X'1AE2C' 'Contact' (network address X'303D')
- X'1B0D8' 'Contacted' (network address X'303D')
- X'1AE78' 'Activate physical' (network address X'303D', buffer offset X'0E' for FID2)
- X'1B254' 'Activate physical' response
- X'1B124' 'Assign network addresses' (to NCP physical services). The CUB is identified at offset X'1E' as X'303D'. At offset X'20' is a value of 01 to specify only one address being assigned. At offset X'22' is the assigned network address of X'303E'. This is a very unusual network address assignment of consecutive network addresses. The last defined CUB in the generation was the switched CUB with address X'303D', and the first available LUB in the LUPOOL had an address of X'303E'.
- X'1B170' 'Set control vector LU' (network address X'303E')

X'1B1BC' 'Activate LU' (network address X'303E')

X'1B2A0' 'Activate logical' response

### Local/Remote Link

1. Type 4 physical unit.
2. Station control block (SCB).
3. 'Nonsequenced acknowledgement' (NSA) or 'request initialization' (RQI).

### Data Link Control

1. Activate link to NCP physical services with the link network address in the RU at RU1NA.
2. (1) The SERVLIM operand specifies the number of passes through the service order table (SOT) before suspending data transfer for command processing. (2) If the pass through the service order table occurs in less time than the value specified in the PAUSE operand, link service is suspended until the pause expires or until outbound data is queued for transmission.
3. In the character control block (CCB) at CCBL2 (offset X'24').
4. In the character control block (CCB) at CCBL3 (offset X'4C').
5. In the link XIO block (LXB) at offset X'20'.
6. In the link XIO block (LXB) at offset X'1C'.
7. The active links are LKBs at X'18B0C', X'18BE8' and X'18CC4', identified at offset X'12' with a value of X'80'.
8. The switched links are the LKBs at X'18BE8' and X'18CC4', identified at the offset X'13' bit value of x1xx xxxx.
9. Half-duplex or full-duplex (one or two scanner addresses) for the link is identified in the ACB (CCB) at offset X'53', CCBTYPE. A value of x1xx xxxx specifies two line adapters. The LKBs at X'18BE8' and X'18CC4' are half-duplex. The LKBs at X'18B0C' is full-duplex.

### BSC/SS Processor

1. FID0
2. BTU
3. (1) Device queue of a device block (DVB) or (2) the nondevice input queue (pointer at HWE plus X'2C').
4. Seven lines, indicated by the leftmost bit of 1 in the resource vector table.
5. Fifteen devices, indicated by the second bit of 1 in the resource vector table.

6. The buffers are grouped in INBFRS quantity (4) at the following buffer addresses:

X'19E24', X'19FA0, X'1A1B4', X'1A2E4 and X'1A414

Buffers X'19F54', X'1A0D0 through X'1A168' were not allocated initially to the channel. The buffers contain the following information:

- X'19E24' 'Activate link' (network address X'3001')
- X'19E70' 'Set mode' (network address X'3002')
- X'19EBC' Allocated for input on the DVB work QCB for resource X'3002'. The DVB at X'17C48' contains a shifted address of X'67AF', or a nonshifted value of X'19EBC'. The chain pointer of buffer X'19EBC' contains X'0000'.
- X'19F08' 'Activate link' (network resource X'3003')
- X'19F54' Allocated as the first buffer in the system save area pool. At address X'075C' in the halfword direct addressables (XDH) is a value of X'67D5' shifted address of buffer X'19F54'.
- X'19FA0' 'Set mode' (network resource X'3004')
- X'19FEC' Allocated for input on the DVB work QCB for resource X'3004'
- X'1A038' 'Activate link' (network resource X'3005'). This command failed as indicated exception response in RH byte 1 xxx1xxxx. Sense data is included as indicated in RH byte 0 xxxxx1xx. Four bytes of sense data is inserted following the RH. The RU is offset four bytes. This buffer contains the response, which does not include the resource identifier. In a PIU trace the request and response is associated by the sequence number field. A 'record maintenance statistics' PIU is generated by the NCP for SSCP to record the failure (see buffer X'1A168').
- X'1A084' 'Activate link' (network resource X'3008')
- X'1A0D0' Work buffer for 'activate link' failure (buffer X'1A038').
- X'1A11C' Work buffer for 'activate link' failure (buffer X'1A038')
- X'1A168' 'Record maintenance statistics for 'activate link' failure initiated in buffer X'1A038' for network resource X'3005'.
- X'1A1B4' 'Set mode' (network resource X'3009')
- X'1A200' Allocated for input on the DVB work QCB for resource X'3009'

X'1A24C'	'Activate line' (network resource X'300A')
X'1A298'	'Set mode' (network resource X'300B')
X'1A2E4'	BSC/SS 'contact' command (network resource X'300B')
X'1A330'	'Activate link' (network resource X'300C')
X'1A37C'	'Set mode' (network resource X'300D')
X'1A3C8'	BSC/SS 'invite' command in BCU (BTU) format (network resource X'300D').
X'1A414'	'Activate link' (network resource X'300E'). This command failed as indicated exception response in RH byte 1 xxx1xxx. Sense data is included as indicated in RH byte 0 xxxx1xx.

7. The buffers contain the following information:

X'1B208'	Unformatted user data, attempted logon from X'300B'
X'1B2EC'	'Reset immediate' (network resource X'300B')
X'1B338'	'Write with end of transmission' (network resource X'300B')
X'1B384'	'Read transmission' (network resource X'300B')
X'1B3D0'	'Write with end of transmission' (network resource X'300B')
X'1B4B4'	'Record maintenance statistics' (network resource X'300B')



Appendix C  
NCP Dump Listing

DUMP BUF=Y, FORMAT=Y, FROMADDR=200  
THE FOLLOWING IS A DUMP OF A LOCAL NCP

TEST0000

PSB (PHYSICAL SERVICES BLOCK) 19C60

00000000 00A80000 0080F5D0 00000000  
00060016 30001000 0008C000 D5C3D7F0  
00000000

00000000 00A80000 0880F460 00000000  
F4D44040 00000000 02000000 00000000

\* .....5.....4.....\*  
\* .....NCP04M.....\*  
\* .....\*  
\* .....\*

SIT (SUBAREA INDEX TABLE) 17A40

00020001 00000000 00000000 00000000

\* .....4.....\*

SVT (SUBAREA VECTOR TABLE) 17A50

00000000 80A17A60 48E06F18  
FF040404 00650016 00219C60

\* .....4.....\*  
\* .....4.....\*





## RESOURCE VECTOR TABLE 17A60 0066 ENTRIES

0000 TYPE 00 PTR 19C60

## START-STOP AND/OR BSC RESOURCES:

0001	TYPE 84	PTR 17C94	0002	TYPE 5C	PTR 17C48	0003	TYPE 84	PTR 17D2C
0004	TYPE 5C	PTR 17CE0	0005	TYPE 80	PTR 17E18	0006	TYPE 58	PTR 17D88
0007	TYPE 58	PTR 17DD0	0008	TYPE 84	PTR 17EC0	0009	TYPE 5C	PTR 17E74
000A	TYPE 84	PTR 17F58	000B	TYPE 5C	PTR 17F0C	000C	TYPE 84	PTR 17FF0
000D	TYPE 5C	PTR 17FA4	000E	TYPE 80	PTR 182F8	000F	TYPE 50	PTR 18074
0010	TYPE 58	PTR 180CC	0011	TYPE 58	PTR 1811C	0012	TYPE 58	PTR 1816C
0013	TYPE 58	PTR 181BC	0014	TYPE 48	PTR 1820C	0015	TYPE 50	PTR 18250
0016	TYPE 58	PTR 182A8						

## SDLC RESOURCES:

0018	TYPE 80	PTR 18B0C	0019	TYPE 60	PTR 1836C	001A	TYPE 08	PTR 183C0
001B	TYPE 08	PTR 183F4	001C	TYPE 08	PTR 18428	001D	TYPE 08	PTR 1845C
001E	TYPE 08	PTR 18490	001F	TYPE 08	PTR 184C4	0020	TYPE 08	PTR 184F8
0021	TYPE 08	PTR 1852C	0022	TYPE 08	PTR 18560	0023	TYPE 08	PTR 18594
0024	TYPE 08	PTR 185C8	0025	TYPE 08	PTR 185FC	0026	TYPE 08	PTR 18630
0027	TYPE 08	PTR 18664	0028	TYPE 08	PTR 18698	0029	TYPE 08	PTR 186CC
002A	TYPE 08	PTR 18700	002B	TYPE 08	PTR 18734	002C	TYPE 08	PTR 18768
002D	TYPE 60	PTR 1879C	002E	TYPE 08	PTR 187F0	002F	TYPE 60	PTR 18830
0030	TYPE 08	PTR 18884	0031	TYPE 08	PTR 188C4	0032	TYPE 08	PTR 18904
0033	TYPE 08	PTR 18944	0034	TYPE 08	PTR 18984	0035	TYPE 08	PTR 189C4
0036	TYPE 08	PTR 18A04	0037	TYPE 08	PTR 18A44	0038	TYPE 60	PTR 18A84
0039	TYPE 08	PTR 18AD8	003A	TYPE 84	PTR 18BE8	003B	TYPE 64	PTR 18B40
003C	TYPE 84	PTR 18CC4	003D	TYPE 64	PTR 18C1C	003E	TYPE 0C	PTR 18CEC
003F	TYPE 0C	PTR 18D2C	0040	TYPE 0C	PTR 18D6C	0041	TYPE 0C	PTR 18DAC
0042	TYPE 0C	PTR 18DEC	0043	TYPE 0C	PTR 18E2C	0044	TYPE 0C	PTR 18E6C
0045	TYPE 0C	PTR 18EAC	0046	TYPE 0C	PTR 18EEC	0047	TYPE 0C	PTR 18F2C
0048	TYPE 0C	PTR 18F6C	0049	TYPE 0C	PTR 18FAC	004A	TYPE 0C	PTR 18FEC
004B	TYPE 0C	PTR 1902C	004C	TYPE 0C	PTR 1906C	004D	TYPE 0C	PTR 190AC
004E	TYPE 0C	PTR 190EC	004F	TYPE 0C	PTR 1912C	0050	TYPE 0C	PTR 1916C
0051	TYPE 0C	PTR 191AC	0052	TYPE 0C	PTR 191EC	0053	TYPE 0C	PTR 1922C
0054	TYPE 0C	PTR 1926C	0055	TYPE 0C	PTR 192AC	0056	TYPE 0C	PTR 192EC
0057	TYPE 0C	PTR 1932C	0058	TYPE 0C	PTR 1936C	0059	TYPE 0C	PTR 193AC
005A	TYPE 0C	PTR 193EC	005B	TYPE 0C	PTR 1942C	005C	TYPE 0C	PTR 1946C
005D	TYPE 0C	PTR 194AC	005E	TYPE 0C	PTR 194EC	005F	TYPE 0C	PTR 1952C
0060	TYPE 0C	PTR 1956C	0061	TYPE 0C	PTR 195AC	0062	TYPE 0C	PTR 195EC
0063	TYPE 0C	PTR 1962C	0064	TYPE 0C	PTR 1966C	0065	TYPE 0C	PTR 196AC

LCB 17C94 0001

00000000	1CA80000	0080CFC0	00000000	00000000	00000000	18A80000	0A40D3B0
00000000	00007210	8800128C	61017C48	00000000	01100000	01000200	01000000
00013001	40000000	00017C48	67FB67FB	00A00000	00000000		

```
* ..... L.*
* .....*
* .....*
```

ACB 07210

008D0082	0C000000	00000000	02000000	00000000	00000000	5F250000	03000000
FF000000	4C901680	79390980	0000C080	08480000	77600001	00F40000	00000000
04000000	09000E00	02800000	4D500300	204D0E00	00000100	0A820000	01004E00
008D0082							

```
* .....*
* .....4.....*
* .....*
* .....*
```

LGT 07760

1D2A6A86	6A2C6E48	CECA8AC0	4847100A	00007C03	02020000	1C261F37	7C342F2F
6E6D405D	FF3D003E	010D2C5E	370E004F	4C7F6140			

```
* .....*
* .....4.....*
```

LCB 17D2C 0003

00000000	1CA80000	0080CFC0	00000000	00000000	00000000	18A80000	0A40D3B0
00000000	00007270	8800128C	61017CE0	00000000	01100000	01000200	01000000
00013003	40000000	00017CE0	02020000	00017DB4	00017DFC		

```
* ..... L.*
* .....*
* .....*
```

ACB 07270

008D0082	0C000000	00000000	00000000	00000000	00000000	5F4B0000	01000000
FF000000	4C901680	793F0980	0000C080	084A0000	77600001	00F40000	00000000
04000000	09000E00	02800000	4D500300	204D0E00	00000100	0A820000	01007900
008D0082							

```
* .....*
* .....4.....*
* .....*
* .....*
```

LGT 07760

1D2A6A86	6A2C6E48	CECA8AC0	4847100A	00007C03	02020000	1C261F37	7C342F2F
6E6D405D	FF3D003E	010D2C5E	370E004F	4C7F6140			

```
* .....*
* .....4.....*
```

LCB 17E18 0005

00000000	1CA80000	0040CFC0	00000000	00000000	00000000	08A80000	0A40D3B0
00000000	000072DC	10001490	42000000	00000000	01200000	16000200	06010000
00003005	00000000	00A00000	00017D78	02030200	00000200		

```
* ..... L.*
* .....*
* .....*
```

ACB 072D0

008D0000	000006F4	00000000	00000000	00000000	00000000	5F860000	00017D78
FF000000	39E61680	794501FF	00004800	0854F400	732E0001	0000009C	00000000
04000000	0A000F00	03000000	4C040800	204B0004	00000100	0A820000	0100082A
6A866A2C							

```
* .....4.....*
* .....W.....4.....*
* .....*
* .....*
```

LGT 0732E

082A6A86 6A2C6E48 C8C08AC0 48471005	7A087C03 03020000 1C261F37 7C342F2F	* .....	H.....*
6E6D405D FF3D003E 010D2C5E 370E004F	4C7F6140	* .....	.....*

LCB 17EC0 0008

00000000 1CA80000 0080CFC0 00000000	00000000 00000000 18A80000 0A40D3B0	* .....	L.*
00000000 00007364 8800128C 41017E74	00000000 01100000 00000000 00000000	* .....	.....*
00013008 40000000 00017E74 00000000	80A00000 00000000	* .....	.....*

ACB 07364

008D0080 00000000 00000000 00000000	00000000 00000000 5FB00000 60000000	* .....	.....*
FF000000 4C9016C0 794B0380 0000C080	084E0000 73C20001 00F40000 00000000	* .....	B...4.....*
04000000 0A00F00 2B800000 4D500200	214D0600 00000100 05820000 0100002A	* .....	.....*
6B026B02		* .....	.....*

LGT 073C2

002A6B02 6E026B02 C0C08AC0 48471006	79C87F01 00000000 1C371F37 3D342F2F	* .....	H.....*
6E6D405D FF3D003E 7C0D2C3D 7C0E004F	4C7F6140	* .....	.B...4.....*

LCB 17F58 000A

6D666D66 1CA80000 0080CFC0 00000000	00000000 5FC35FC3 18A80000 0A80D3B0	* .....	C.C.....L.*
00000000 000073F8 A000128C 41017F0C	00000000 004C0000 01000000 00000000	* .....	8.....*
0000300A 50000000 00017F0C 00000000	00A00000 00000000	* .....	.....*

ACB 073F8

00282850 00000000 00000000 1E336D66	6CF40000 01000000 5FD60000 60000000	* .....	4.....O.....*
00000000 36FC16CC 79516680 0000C080	08500000 74560101 00200000 0001B407	* .....	.....*
2201B598 0C001100 2B81B598 633A0200	204D6E00 99340100 0A820000 0100002A	* .....	.....*
6B026B02		* .....	.....*

LGT 07456

002A6B02 6B026B02 C0C08AC0 48471006	79C87F01 00000000 1C371F37 3D342F2F	* .....	H.....*
6E6D405D FF3D003E 7C0D2C3D 7C0E004F	4C7F6140	* .....	.....*

LCB 17FF0 000C

00000000 1CA80000 0080CFC0 00000000	00000000 00000000 18A80000 0A40D3B0	* .....	L.*
00000000 0000748C 8800128C 41017FA4	00000000 01280000 01000000 00010000	* .....	.....*
0001300C 40000000 00017FA4 0C0C9140	000180A0 0001827C	* .....	.....*

ACB 0748C

008D0080 00000000 00000000 00000000	00000000 00000000 5FFC0000 31000000	* .....	.....*
FF000000 4C901700 72100680 0000C080	08520000 74EA0001 00F40000 00000000	* .....	4.....*

3705 DUMP

04000000	0B001000	2B800000	4D500200	217D0600	00000100	0A500000	0100222A
6B5A6BA2							

```
* .....*
* .....*
```

LGT 074EA

222A6B5A	6BA26BC2	C0C08AC0	78771106	79D8FF01	00000000	1C381F84	7C808B89
8A8D405D	803DE085	910D9391	9140B100	3400008D			

```
* .....B.....Q.....*
* .....u.....*
```

LCB 182F8 000E

00000000	1CA80000	0040CFC0	00000000	00000000	00000000	08A80000	0A40D3B0
00000000	0000751C	10001490	46000000	00000000	01200000	16000300	04010000
0000300E	00000000	00A00000	0201803C	02090800	00000800		

```
* .....L.*
* .....*
* .....*
```

ACB 0751C

008D0000	000006F4	00000000	00000000	00000000	00000000	60BE0000	0001803C
00000000	31C21640	793301FF	00004800	0888F400	75780001	0000009C	00000000
04000000	08C00D00	06000000	4C040700	38CD001E	00000200	00000000	4C1666D6
67CC6E48							

```
* .....4.....*
* .....B.....4.....*
* .....O*
* .....H.....*
```

LGT 07578

4C1666D6	67CC6E48	C8D484C6	C8C51A07	79F8AA03	0F0F3202	10261037	1002101F
10701061	107C102D	3D011003	106B8888	00300000			

```
* ...O...HM.FHE...8.....*
* .....*
```

```

DVB 17C48 0002
    67AF67AF 00A00000 00000000 04A80000 0400C810 00000000 00000000 300203A4 *.....H.....*
    80017C94 00000040 00003800 60000008 01000000 00000000 11000002 00000000 *.....*
    09000000 00000000 01000000 00000000 1CA80000 *.....O*

DVB 17CE0 0004
    67FB67FB 00A00000 00000000 04A80000 0400C810 00000000 00000000 300407A4 *.....H.....*
    80017D2C 0000004C 00003800 60000008 01000000 00000000 11000000 00000000 *.....*
    00000000 00000000 01000000 00000000 1CA80000 *.....O*

DVB 17D88 0006
    00000000 00A0000C 00000000 04A80000 0480C810 00000000 00000000 30060087 *.....H.....*
    84017E18 0000003E 00000000 B000202E 00000100 0F0002C1 40000301 C1400000 *.....A..A..*
    00000000 0000012C 00000000 00A00000 00000000 *.....O*

DVB 17DD0 0007
    00000000 00A00000 00000000 04A80000 0480C810 00000000 00000000 30070087 *.....H.....*
    84017E18 0000003E 00000000 B0002028 00000100 0F0002C2 40000301 C2400000 *.....B..B..*
    00000000 00000100 00000000 1CA80000 0040CFC0 *.....O*

DVB 17E74 0009
    68806880 00A00000 00000000 04A80000 0400C810 00000000 00000000 300907A4 *.....H.....*
    85017EC0 00000040 00003800 60000008 01000000 00000000 10000000 00000000 *.....*
    00000000 00000000 01000000 00000000 1CA80000 *.....O*

DVB 17F0C 000B
    00000000 30A00000 00000000 04A80000 0400C810 00000000 00000000 300B07A4 *.....H.....*
    85017F58 00030040 00003800 AA000008 00000000 00000000 10000000 00000000 *.....*
    00000000 00000000 01000358 6D666D66 1CA80000 *.....O*

DVB 17FA4 000D
    00000000 00A00000 00000000 04A80000 0480C810 00000000 00000000 300D07A4 *.....H.....*
    8A017FF0 00000040 00003800 31000008 00000000 00000000 10000000 00000000 *.....0.....*
    01017A98 00001001 01000000 00000000 1CA80000 *.....O*

DVB 18074 000F
    00000000 00A00000 00000000 04A80000 0480C810 00000000 00000000 300F000D *.....H.....*
    CC0182F8 0000004C 00000000 B0002028 00000100 003C0540 407F7F2D 00017AA0 *.....8.....*
    00000002 00000000 00A00000 00000000 00000000 *.....O*

DVB 180CC 0010
    00000000 00A00000 00000000 04A80000 0480C810 00000000 00000000 30101087 *.....H.....*
    4C018074 00000044 00000000 B0002028 00000100 12000540 4040402D 00056060 *.....*

```

```

40402D00 00000000 00000000 010400C0 00000000 * .....O*
DVB 1811C 0011
00000000 00A00000 00000000 04A80000 0480C810 00000000 00000000 30111087 * .....H.....*
4C018074 00000044 00000000 B0002028 00000100 12000540 40C1C12D 00056060 * .....AA.....*
C1C12D00 00000000 00000000 01000000 00000000 *AA.....O*
DVB 1816C 0012
00000000 00A00000 00000000 04A80000 0480C810 00000000 00000000 30121087 * .....H.....*
4C018074 00000044 00000000 B0002028 00000100 12000540 40C2C22D 00056060 * .....BB.....*
C2C22D00 00000000 00000000 01000000 00000000 *BB.....O*
DVB 181BC 0013
00000000 00AC0000 00000000 04A80000 0480C810 00000000 00000000 30131087 * .....H.....*
4C018074 00000044 00000000 B0002028 00000100 12000540 40C3C32D 00056060 * .....CC.....*
C3C32D00 00000000 00000000 01842000 00000000 *CC.....O*
DVB 1820C 0014
00000000 00A00000 00000000 04A80000 0480C810 00000000 00000000 30143083 * .....H.....*
4C018074 00000000 00000000 B0002020 00000100 12000540 40C4C42D 0D056060 * .....DD.....*
C4C42D9C 00000000 00A00000 00000000 04A80000 *DD.....O*
DVB 18250 0015
00000000 00A00000 00000000 04A80000 0480C810 00000000 00000000 3015000D * .....H.....*
CC0182F8 0000004C 00000000 B0002028 00000100 003C05C1 C17F7F2D 00017AB8 * ..8.....AA.....*
000000C0 00000000 00A00000 00000000 00000000 * .....O*
DVB 182A8 0016
00000000 00A00000 00000000 04A80000 0480C810 00000000 00000000 30161087 * .....H.....*
4C018250 00000044 00000000 B0002028 00000100 120005C1 C140402D 00056161 * .....AA.....*
40402D00 00000000 00000000 01000000 00000000 * .....O*

```

LKB 18B0C 0018

00000000	00A80000	00412088	00000000	301880A0	00000000	00000000	00000000	* .....	*
00000000	00007604							* .....	AA .....

ACB-R 07604

00300000	00000000	00000000	C9020000	00000000	00000000	62C30000	41018354	* .....	I.....C.....*
040075A8	1ACC1740	75A80440	0000C480	0842F0B8	7660302B	00000000	5101AF79	* .....	...D...O.....*
1281AF5C	04040051	2B040000	216A051C	389C0E41	FF801ACC	C5514101		* .....	.....F.....O*

ACB-X 075A8

00300000	00000000	00000000	0E000000	54A40000	00000000	62C30000	00007604	* .....	.....C.....*
00018360	1D961770	751C3A80	00004000	08404B18	76600001	00000000	00000000	* .....	.....*
0401AD94	04040000	2B040000	1E340500	389D0E61	FF981D96	C9930001		* .....	.....I.....O*

LGT 07660

8C0E217E	217E219E	C4C088C6	98842000	79E80000	00000000	008D0080	00000000	* .....	D..F.....Y.....*
0C000000	0E000000	00000000	00000000	62FA0000				* .....	.....*

LKB 18BE8 003A

00000000	00A80000	00411618	00000000	303A8060	00500000	00000000	00000000	* .....	*
00000000	00007678							* .....	*

ACB-R 07678

008D0080	00000000	00000000	0E000000	00000000	00000000	62FA0000	00018B34	* .....	.....*
00018B38	4C901740	76043880	00004000	08440000	76D40001	00F40000	00000000	* .....	.....M...4.....*
04000000	01010000	2B800000	4D500500	389C0621	00000100	00000000		* .....	.....O*

LGT 076D4

8C0E217E	217E219E	C4C088C6	98842000	79E80000	00000000	00300000	00000000	* .....	D..F.....Y.....*
00000000	C4220000	54A70000	00000000	63310000				* .....	...D.....M...4.....*

LKB 18CC4 003C

00000000	00A80000	00412088	00000000	303C8060	00C00000	00000000	00000000	* .....	*
00000000	000076EC							* .....	.....M...4.....*

ACB-R 076EC

00300000	00000000	00000000	C4220000	54A70000	00000000	63310000	00018C14	* .....	.....D.....*
00018C14	1ACC1740	76780940	0000C480	09451E7E	7748002B	00000000	5101B2BF	* .....	...D.....*
1281B2A0	01010051	2B840000	1E48051C	389C0A21	D6141ACC	C4514100		* .....	.....O...D.....O*

LGT 07748



3705 DUMP

8C0E217E 217E219E C4C088C6 98842000  
CECA8AC0 4847100A 00007C03 02020000

79E80000 00000000 1D2A6A86 6A2C6E48  
1C261F37

\*.....D..F.....Y.....\*  
\*.....\*.....\*

CUB 1836C 0019  
 00000000 00A80000 008103F0 00000000 00000000 00000000 C9018B0C 3019A141 \*.....0.....I.....\*  
 00800000 02000000 00000000 00000700 00070000 04000000 000A0000 00000000 \*.....\*  
 00A80000 1E810AD0 00000000 00000300 01090000 00000000 \*.....0\*

CUB 1879C 002D  
 00000000 00A80000 008103F0 00000000 00000000 00000000 C2018B0C 302DA141 \*.....0.....B.....\*  
 00800000 04000000 00000000 00000100 00010000 00000000 00000000 00000000 \*.....\*  
 00A80000 1E810AD0 00000000 00000300 01050000 00000000 \*.....0\*

CUB 18830 002F  
 00000000 00A80000 008103F0 00000000 00000000 00000000 C5018B0C 302F0001 \*.....0.....E.....\*  
 00800002 04000000 88440000 00000700 440C0000 04000000 000A0000 00000000 \*.....\*  
 00A80000 1E810AD0 00000000 80800300 01050000 00000000 \*.....0\*

CUB 18A84 0038  
 00000000 00A80000 008103F0 00000000 00000000 00000000 C3018B0C 3038A001 \*.....0.....C.....\*  
 00800000 02000000 00000000 00000100 00010000 00000000 00000000 00000000 \*.....\*  
 00A80000 1E810AD0 00000000 00000300 01090000 00000000 \*.....0\*

CUB 18B40 003B  
 00000000 00A80000 008103F0 00000000 00000000 00000000 FF018BE8 303BA001 \*.....0.....Y.....\*  
 00800000 24000000 00000000 00000000 00010000 00000000 00000000 00000000 \*.....\*  
 00A80000 1E810AD0 00000000 00000000 00000000 14018B98 \*.....0\*

LUVT 18B98  
 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 \*.....\*  
 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 \*.....\*  
 00000000 00000000 00000000 00800000 \*.....0\*

CUB 18C1C 003D  
 00000000 00A80000 008103F0 00000300 00000000 00000000 C4018CC4 303D0001 \*.....0.....D..D....\*  
 00810002 22000000 44440000 00140700 44070000 00000000 00000000 00000000 \*.....\*  
 00A80000 1E810AD0 00000000 80000300 01090000 14018C74 \*.....0\*

LUVT 18C74  
 01418CEC 00000000 00000000 00000000 00000000 00000000 00000000 00000000 \*.....\*  
 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 \*.....\*  
 00000000 00000000 00000000 00800000 \*.....0\*

```

LUB      183C0      001A
          00000000 00A80000 00810A00 00000000    00000000 00A80000 08810760 00000000  * .....*
          0001836C 301A0000 00000000 00000202    00010000 00000000 00A80000 00810A00  * .....*

LUB      183F4      001B
          00000000 00A80000 00810A00 00000000    00000000 00A80000 08810760 00000000  * .....*
          0001836C 301B0000 00000000 00000101    00020000 00000000 00A80000 00810A00  * .....*

LUB      18428      001C
          00000000 00A80000 00810A00 00000000    00000000 00A80000 08810760 00000000  * .....*
          0001836C 301C0000 00000000 00000707    00030000 00000000 00A80000 00810A00  * .....*

LUB      1845C      001D
          00000000 00A80000 00810A00 00000000    00000000 00A80000 08810760 00000000  * .....*
          0001836C 301D0000 00000000 00000101    000400A2 00000000 00A80000 00810A00  * .....*

LUB      18490      001E
          00000000 00A80000 00810A00 00000000    00000000 00A80000 08810760 00000000  * .....*
          0001836C 301E0000 00000000 00000101    00052000 00000000 00A80000 00810A00  * .....*

LUB      184C4      001F
          00000000 00A80000 00810A00 00000000    00000000 00A80000 08810760 00000000  * .....*
          0001836C 301F0000 00000000 00000101    00060000 00000000 00A80000 00810A00  * .....*

LUB      184F8      0020
          00000000 00A80000 00810A00 00000000    00000000 00A80000 08810760 00000000  * .....*
          0001836C 30200000 00000000 00000101    00070000 00000000 00A80000 00810A00  * .....*

LUB      1852C      0021
          00000000 00A80000 00810A00 00000000    00000000 00A80000 08810760 00000000  * .....*
          0001836C 30210000 00000000 00000101    00080000 00000000 00A80000 00810A00  * .....*

LUB      18560      0022
          00000000 00A80000 00810A00 00000000    00000000 00A80000 08810760 00000000  * .....*
          0001836C 30220000 00000000 00000101    00090000 00000000 00A80000 00810A00  * .....*

LUB      18594      0023
          00000000 00A80000 00810A00 00000000    00000000 00A80000 08810760 00000000  * .....*
          0001836C 30230000 00000000 00000101    000A0000 00000000 00A80000 00810A00  * .....*

LUB      185C8      0024

```

```

00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * .....*
0001836C 30240000 00000000 00000101 000B0000 00000000 00A80000 00810A00 * .....*

LUB 185FC 0025

00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * .....*
0001836C 30250000 00000000 00000101 000C0000 00000000 00A80000 00810A00 * .....*

LUB 18630 0026

00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * .....*
0001836C 30260000 00000000 00000101 000D0000 00000000 00A80000 00810A00 * .....*

LUB 18664 0027

00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * .....*
0001836C 30270000 00000000 00000101 000E0000 00000000 00A80000 00810A00 * .....*

LUB 18698 0028

00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * .....*
0001836C 30280000 00000000 00000101 000F0000 00000000 00A80000 00810A00 * .....*

LUB 186CC 0029

00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * .....*
0001836C 30290000 00000000 00000101 00100000 00000000 00A80000 00810A00 * .....*

LUB 18700 002A

00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * .....*
0001836C 302A0000 00000000 00000101 00110000 00000000 00A80000 00810A00 * .....*

LUB 18734 002B

00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * .....*
0001836C 302B0000 00000000 00000101 00120000 00000000 00A80000 00810A00 * .....*

LUB 18768 002C

00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * .....*
0001836C 302C0000 00000000 00000101 00130000 00000000 00A80000 008103F0 * .....*

LUB 187F0 002E

00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * .....*
0001879C 302E0000 00000000 00000101 00010000 00000000 00000000 00000000 * .....*

LUB 18884 0030

00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * .....*
00018830 30300000 80001001 80090101 00010001 00000001 00020001 00010002 * .....*

```

```

LUB    188C4    0031
        00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * ..... *
        00018830 30310000 80000000 00000101 00020001 00000000 00000000 00000000 * ..... *

LUB    18904    0032
        00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * ..... *
        00018830 30320000 80000000 00000101 00030001 00000000 00000000 00000000 * ..... *

LUB    18944    0033
        00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * ..... *
        00018830 30330000 80000000 00000101 00040001 00000000 00000000 00000000 * ..... *

LUB    18984    0034
        00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * ..... *
        00018830 30340000 80000000 00000101 00050001 00000000 00000000 00000000 * ..... *

LUB    189C4    0035
        00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * ..... *
        00018830 30350000 80000000 00000101 00060001 00000000 00000000 00000000 * ..... *

LUB    18A04    0036
        00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * ..... *
        00018830 30360000 80000000 00000101 00070001 00000000 00000000 00000000 * ..... *

LUB    18A44    0037
        00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * ..... *
        00018830 30370000 80000000 00000101 00080001 00000000 00000000 00000000 * ..... *

LUB    18AD8    0039
        00000000 00A80000 00010A00 00000000 00000000 00A80000 08010760 00000000 * ..... *
        00018A84 30390000 00000000 00000101 00010000 00000000 00A80000 00412088 * ..... *

LUB    18CEC    003E
        00000000 00A80000 00810A00 00000000 00000000 00A80000 08010760 00000000 * ..... *
        00018C1C 303E0000 80000000 00000101 00010000 00000000 00000000 00000000 * ..... *

LUB    18D2C    003F
        00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * ..... *
        00000000 303F0000 00000000 00000000 00010000 00000000 00000000 00000000 * ..... *

LUB    18D6C    0040

```

```

00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * ..... *
00000000 30400000 00000000 00000000 00010000 00000000 00000000 00000000 * ..... *
LUB 18DAC 0041
00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * ..... *
00000000 30410000 00000000 00000000 00010000 00000000 00000000 00000000 * ..... *
LUB 18DEC 0042
00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * ..... *
00000000 30420000 00000000 00000000 00010000 00000000 00000000 00000000 * ..... *
LUB 18E2C 0043
00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * ..... *
00000000 30430000 00000000 00000000 00010000 00000000 00000000 00000000 * ..... *
LUB 18E6C 0044
00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * ..... *
00000000 30440000 00000000 00000000 00010000 00000000 00000000 00000000 * ..... *
LUB 18EAC 0045
00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * ..... *
00000000 30450000 00000000 00000000 00010000 00000000 00000000 00000000 * ..... *
LUB 18EEC 0046
00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * ..... *
00000000 30460000 00000000 00000000 00010000 00000000 00000000 00000000 * ..... *
LUB 18F2C 0047
00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * ..... *
00000000 30470000 00000000 00000000 00010000 00000000 00000000 00000000 * ..... *
LUB 18F6C 0048
00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * ..... *
00000000 30480000 00000000 00000000 00010000 00000000 00000000 00000000 * ..... *
LUB 18FAC 0049
00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * ..... *
00000000 30490000 00000000 00000000 00010000 00000000 00000000 00000000 * ..... *
LUB 18FEC 004A
00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * ..... *
00000000 304A0000 00000000 00000000 00010000 00000000 00000000 00000000 * ..... *

```

3705 DUMP

LUB	1902C	004B								
	00000000	00A80000	00810A00	00000000	00000000	00A80000	08810760	00000000	*	.....*
	00000000	304B0000	00000000	00000000	00010000	00000000	00000000	00000000	*	.....*
LUB	1906C	004C								
	00000000	00A80000	00810A00	00000000	00000000	00A80000	08810760	00000000	*	.....*
	00000000	304C0000	00000000	00000000	00010000	00000000	00000000	00000000	*	.....*
LUB	190AC	004D								
	00000000	00A80000	00810A00	00000000	00000000	00A80000	08810760	00000000	*	.....*
	00000000	304D0000	00000000	00000000	00010000	00000000	00000000	00000000	*	.....*
LUB	190EC	004E								
	00000000	00A80000	00810A00	00000000	00000000	00A80000	08810760	00000000	*	.....*
	00000000	304E0000	00000000	00000000	00010000	00000000	00000000	00000000	*	.....*
LUB	1912C	004F								
	00000000	00A80000	00810A00	00000000	00000000	00A80000	08810760	00000000	*	.....*
	00000000	304F0000	00000000	00000000	00010000	00000000	00000000	00000000	*	.....*
LUB	1916C	0050								
	00000000	00A80000	00810A00	00000000	00000000	00A80000	08810760	00000000	*	.....*
	00000000	30500000	00000000	00000000	00010000	00000000	00000000	00000000	*	.....*
LUB	191AC	0051								
	00000000	00A80000	00810A00	00000000	00000000	00A80000	08810760	00000000	*	.....*
	00000000	30510000	00000000	00000000	00010000	00000000	00000000	00000000	*	.....*
LUB	191EC	0052								
	00000000	00A80000	00810A00	00000000	00000000	00A80000	08810760	00000000	*	.....*
	00000000	30520000	00000000	00000000	00010000	00000000	00000000	00000000	*	.....*
LUB	1922C	0053								
	00000000	00A80000	00810A00	00000000	00000000	00A80000	08810760	00000000	*	.....*
	00000000	30530000	00000000	00000000	00010000	00000000	00000000	00000000	*	.....*
LUB	1926C	0054								
	00000000	00A80000	00810A00	00000000	00000000	00A80000	08810760	00000000	*	.....*
	00000000	30540000	00000000	00000000	00010000	00000000	00000000	00000000	*	.....*
LUB	192AC	0055								

```

00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * .....*
00000000 30550000 00000000 00000000 00010000 00000000 00000000 00000000 * .....*

LUB 192EC 0056

00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * .....*
00000000 30560000 00000000 00000000 00010000 00000000 00000000 00000000 * .....*

LUB 1932C 0057

00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * .....*
00000000 30570000 00000000 00000000 00010000 00000000 00000000 00000000 * .....*

LUB 1936C 0058

00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * .....*
00000000 30580000 00000000 00000000 00010000 00000000 00000000 00000000 * .....*

LUB 193AC 0059

00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * .....*
00000000 30590000 00000000 00000000 00010000 00000000 00000000 00000000 * .....*

LUB 193EC 005A

00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * .....*
00000000 305A0000 00000000 00000000 00010000 00000000 00000000 00000000 * .....*

LUB 1942C 005B

00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * .....*
00000000 305B0000 00000000 00000000 00010000 00000000 00000000 00000000 * .....*

LUB 1946C 005C

00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * .....*
00000000 305C0000 00000000 00000000 00010000 00000000 00000000 00000000 * .....*

LUB 194AC 005D

00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * .....*
00000000 305D0000 00000000 00000000 00010000 00000000 00000000 00000000 * .....*

LUB 194EC 005E

00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * .....*
00000000 305E0000 00000000 00000000 00010000 00000000 00000000 00000000 * .....*

LUB 1952C 005F

00000000 00A80000 00810A00 00000000 00000000 00A80000 08810760 00000000 * .....*
00000000 305F0000 00000000 00000000 00010000 00000000 00000000 00000000 * .....*

```



LUB	1956C	0060							* .....			
			00000000	00A80000	00810A00	00000000	00000000	00A80000	08810760	00000000	* .....	
			00000000	30600000	00000000	00000000	00000000	00010000	00000000	00000000	* .....	
LUB	195AC	0061									* .....	
			00000000	00A80000	00810A00	00000000	00000000	00000000	00A80000	08810760	00000000	* .....
			00000000	30610000	00000000	00000000	00000000	00010000	00000000	00000000	00000000	* .....
LUB	195EC	0062									* .....	
			00000000	00A80000	00810A00	00000000	00000000	00000000	00A80000	08810760	00000000	* .....
			00000000	30620000	00000000	00000000	00000000	00010000	00000000	00000000	00000000	* .....
LUB	1962C	0063									* .....	
			00000000	00A80000	00810A00	00000000	00000000	00000000	00A80000	08810760	00000000	* .....
			00000000	30630000	00000000	00000000	00000000	00010000	00000000	00000000	00000000	* .....
LUB	1966C	0064									* .....	
			00000000	00A80000	00810A00	00000000	00000000	00000000	00A80000	08810760	00000000	* .....
			00000000	30640000	00000000	00000000	00000000	00010000	00000000	00000000	00000000	* .....
LUB	196AC	0065									* .....	
			00000000	00A80000	00810A00	00000000	00000000	00000000	00A80000	08810760	00000000	* .....
			00000000	30650000	00000000	00000000	00000000	00010000	00000000	00000000	00000000	* .....

GENERAL REGISTERS

GROUP 0	01A0A	0C485	076EC	0457E	01ACC	0001D	00846	01781
GROUP 1	0B360	005BB	076EC	08080	07982	00140	00020	0FD00
GROUP 2	0A6A2	00000	00000	00004	00070	005B0	07794	00070
GROUP 3	0D97A	1B598	17F58	1B598	17FOC	02800	073F8	02850

STORAGE KEYS

00000	0	00800	0	01000	0	01800	0	02000	0	02800	0	03000	0	03800	0
04000	0	04800	0	05000	0	05800	0	06000	0	06800	0	07000	0	07800	0
08000	0	08800	0	09000	0	09800	0	0A000	0	0A800	0	0B000	0	0B800	0
0C000	0	0C800	0	0D000	0	0D800	0	0E000	0	0E800	0	0F000	0	0F800	0
10000	0	10800	0	11000	0	11800	0	12000	0	12800	0	13000	0	13800	0
14000	0	14800	0	15000	0	15800	0	16000	0	16800	0	17000	0	17800	0
18000	0	18800	0	19000	0	19800	0	1A000	0	1A800	0	1B000	0	1B800	0

PROTECTION KEYS

	KEY0 7	KEY1 7	KEY2 0	KEY3 3	KEY4 7	KEY5 7	KEY6 7	KEY7 7	
00200	5174A819	0301D204	D001D136	5174A8B1	53CCFBE4	D059D132	5174A869	0301EA84	*.....K...J.....U..J.....*
00220	DAACFAC2	E91E8201	84028508	55740381	51748203	83FC5304	82048302	3381D110	*...BZ.....U.....J.*
00240	5174A891	82108402	85005574	A821759C	8484058B	FD0CE915	84588518	55748402	*.....Z.....*
00260	55748201	A839E902	A83D8458	85105574	84025574	8210A84B	532C92FC	84FF85FF	*.....Z.....*
00280	53C88404	85025501	950153C8	895233C8	03818201	5344A8E5	77C8078B	83086374	*.H.....H...H.....H.....*
002A0	637CEB16	33C88220	A9630301	058BA977	050BA8C2	A800A800	A8008602	8706737C	*.....H.....B.....*
002C0	EB048360	637433C8	A983820F	617CE9BA	6764617C	61346324	A8318612	657C8400	*.....H.....Z.....*
002E0	EDA88520	6574A92D	610CF8E6	651C637C	85008300	53C89812	8206C8B0	F82DE8B6	*.....8W.....H...H.8.Y.*
00300	D8C8C80C	87068612	A802870E	D208A841	611C80FF	91F69836	9101980C	9103982E	*QHH.....K.....6.....*
00320	91019874	9101983C	8602A823	611C91FB	F1FF889C	A80FD888	611CF1FF	8808A84C	*.....1....Q...1....*
00340	86228702	A83BD208	A8798622	A87D8682	A8490501	F4108804	94300581	86028110	*.....K.....4.....*
00360	6174A9B1	0501EC82	FC886744	D2808301	A8A1870D	A86B8202	612CF001	98B5C9FD	*.....K.....0...I.*
00380	D9BDE890	C90AF008	98B9C8AE	870CA885	8622A88B	C8BAA871	0101F001	88068058	*R.Y.I.0...H.....H....0....*
003A0	81105174	11C88002	51748010	01818404	85005583	D2408302	A8E9CC27	EC08614C	*.....H.....K...Z.....*
003C0	51819502	A81377C8	07818602	870FA8C5	80048102	11019004	51C89817	80126124	*.....H.....E.....H.....*
003E0	11C88080	71740101	77C8F882	8708719C	F1028802	D7208004	8104001C	8FF80400	*.H.....H8....1...P.....8..*
00400	0000B360	000005BB	000076EC	00008080	00007982	00000140	00000020	0000FD00	*.....*
00420	0000A6A2	00000000	00000000	00000004	00000070	000005B0	00007794	00000070	*.....*
00440	0000D97A	0001B598	00017F58	0001B598	00017FOC	00002800	000073F8	00002850	*...R.....8....*
00460	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	*.....*
00480	00000000	00000000	00000000	00000000	00000000	00000000	07070003	07070707	*.....*
004A0	03020601	04060507	00070001	00030707	07040707	03060307	03070405	05030707	*.....*
004C0	03010307	00070004	01070202	06060507	06070705	02020704	07030507	03070707	*.....*
004E0	00000003	00000000	00426602	6212651E	6722600A	00000000	00000000	00000000	*.....*
00500	00A80000	0020050C	00000000	B8400F40	33E88806	B8402508	A80FB840	35805000	*.....Y.....*
00520	00000000	D6202000	C3E7C1E2	E4D7F47B	63966606	77A82488	44285498	036253A8	*...O...CXASUP4.....*
00540	970143B8	981244F8	44F82481	24014498	44985498	5298A819	44A82481	02D202F2	*.....8.....K.2.*
00560	045A4781	B9200014	17B89828	77F80557	B5018828	73F8B920	002813B8	981E3788	*.....8.....8.....8.....*
00580	B502881C	73F8B920	005013B8	98123788	8112A80E	B9200321	B80097B0	8150A802	*.....8.....*
005A0	81254301	73A003D5	9703DF31	738005CC	77F81E72	43800800	33A87604	73B1B384	*.....N.....8.....*
005C0	0F906F48	0B9032C4	05E49198	BB2005A8	238005F0	2B9CF866	2A9C2F00	29A1B5E4	*.....D..U.....0..8.....U*

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005E0 6315B598 618C6F18 06341081 610C0022 B92005CC 61880614 81909CE0 95280103 * ..... *
00600 06357F14 FA21B598 22057A90 3088300B 00180000 900005F0 91000638 8804A856 * .....0..... *
00620 90008042 B9217R14 7134B920 04087134 B800A740 00800000 00000614 B920065C * ..... *
00640 B80097B0 00000000 00000000 00000000 00000000 00000000 00000000 00000638 * ..... *
00660 0003DF30 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * ..... *
00680 F0F00000 00004B48 47002651 01800049 4C7700F0 0FC28C00 00000000 0505860A *00.....0.B..... *
006A0 02C8C8CC C6C80A0A 0000FFFF FF0A0A0A 000A0A0A 0A0A4080 80808000 00000000 *..HH.FH..... *
006C0 00C80000 00C80000 00C80000 00C80000 00C80000 00C80000 00C80000 00C80000 *..H...H...H...H...H...H...H...H... *
006E0 00C80000 13011503 8E133581 9104A80D 00000000 00008006 81C9A819 A8090000 *..H..... *
00700 10000000 00000002 03880000 00000130 00000000 00000000 00000000 00000000 * ..... *
00720 00000000 00000000 00000000 00000000 00000000 00000000 00000000 76EC748C * ..... *
00740 76EC0000 00000000 00000000 00000000 00000000 0033003C 000A0000 67D50001 * .....N... *
00760 00000877 0000A8C0 00000000 00000000 0C146F48 5E200000 00000000 00000000 * ..... *
00780 00001A0A 0000C485 000076EC 0000457E 00001ACC 0000001D 00000846 00001781 * .....D..... *
007A0 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * ..... *
007C0 00000000 0001B6C8 000197C4 000197CC 0001BF80 00019CA8 00019738 00000000 * .....H...D..... *
007E0 0001BFFF 00019770 00017A62 00000000 C001B384 00000000 00000000 00000000 * ..... *
00800 00DB00DB 00DB00DB 00DB00DB 00DB00DB 00DB00DB 00DB00DB 00DB00DB 00DB00DB * ..... *
LINE 00820 SAME AS ABOVE
00840 75A87604 767876EC 72107270 00DB7364 73F8748C 72D000DB 00DB00DB 00DB00DB * .....8..... *
00860 00DB00DB 00DB00DB 00DB00DB 00DB00DB 00DB00DB 00DB00DB 00DB00DB 00DB00DB * ..... *
00880 00DB00DB 00DB00DB 751C00DB 00DB00DB 00DB00DB 00DB00DB 00DB00DB 00DB00DB * ..... *
008A0 00DB00DB 00DB00DB 00DB00DB 00DB00DB 00DB00DB 00DB00DB 00DB00DB 00DB00DB * ..... *
008C0 0002040A 00000000 00000000 00000000 06000000 00000000 00000000 00000014 * ..... *
008E0 00000000 00000800 00000000 00120000 00001000 0000000C 00000000 000E0000 * ..... *
00900 60047C00 F8008800 F4008400 14002400 F2008200 D000E000 9600A600 360C060E *...8...4...2..... *
00920 F1008100 9900A900 9500A500 35000514 9300A300 7B084B02 F7008700 17002700 *1.....7..... *
00940 40005000 9800A800 9400A400 34000400 9200A200 F000C000 F6008600 16002606 * .....0...6..... *
00960 91006100 F9008900 F5008500 15122500 F3008300 5B006B00 9700A700 370A0710 *...9...5...3..... *
00980 6D044A00 5C00C800 7A00C400 14002400 5F00C200 3F003F00 D600E600 360C060E *...H...D.....B...O.W..... *
009A0 7E00C100 D900E900 D500E500 35000514 D300E300 7F085F02 6E00C700 17002700 *..A.R.Z.N.V...L.T...G..... *
009C0 40004E00 D800E800 D400E400 34000400 D200E200 5D003F00 7D00C600 16002606 *...Q.Y.M.U...K.S...F..... *
009E0 D1006F00 4D00C900 6C00C500 15122500 5E00C300 5A006B00 D700E700 370A0710 *J...I...E...C...P.X..... *
00A00 60047C00 F8008800 F4008400 14002400 F2008200 D000E000 9600A600 360C060E *...8...4...2..... *
00A20 F1008100 9900A900 9500A500 35000514 9300A300 7B084B02 F7008700 17002700 *1.....7..... *
00A40 40005000 9800A800 9400A400 34000400 9200A200 F000C000 F6008600 16002606 * .....0...6..... *
00A60 91006100 F9008900 F5008500 15122500 F3008300 5B006B00 9700A700 370A0710 *...9...5...3..... *
00A80 6D044A00 5C00C800 7A00C400 14002400 4C00C200 3F003F00 D600E600 360C060E *...H...D.....B...O.W..... *
00AA0 7E00C100 D900E900 D500E500 35000514 D300E300 7F085F02 6E00C700 17002700 *..A.R.Z.N.V...L.T...G..... *
00AC0 40004E00 D800E800 D400E400 34000400 D200E200 5D003F00 7D00C600 16002606 *...Q.Y.M.U...K.S...F..... *
00AE0 D1006F00 4D00C900 6C00C500 15122500 5E00C300 5A006B00 D700E700 370A0710 *J...I...E...C...P.X..... *
00B00 5E005E00 5E005E00 37022D08 2E0A2F00 5E005000 15000B00 0C000D06 0E000F00 * ..... *
00B20 5E001104 34003C06 04005E00 5E005E00 18065E00 5E005E00 5E005E00 5E005E00 * ..... *
00B40 40005A00 7F007B00 5B006C00 50007D00 4D005D00 5C004E00 6B006000 4B006100 * ..... *
00B60 F000F100 F200F300 F400F500 F600F700 F800F900 7A005E00 4C007E00 6E006F00 *0.1.2.3.4.5.6.7.8.9..... *
00B80 7C00C100 C200C300 C400C500 C600C700 C800C900 D100D200 D300D400 D500D600 *..A.B.C.D.E.F.G.H.I.J.K.L.M.N.O.*
00BA0 D700D800 D900E200 E300E400 E500E600 E700E800 E9007900 E1004900 4F001600 *P.Q.R.S.T.U.V.W.X.Y.Z..... *
00BC0 5E005E00 5E005E00 5E005E00 5E005E00 5E005E00 5E005E00 5E005E00 5E005E00 * ..... *
00BE0 5E005E00 5E005E00 5E005E00 5E005E00 5E005E00 5E005E00 5E005E00 5E005E00 * ..... *
00C00 5A04A300 F4006100 F5009700 14002400 F2007E00 3F003F00 89009200 360C060E *...4...5...2..... *
00C20 F1008700 A2008800 99008400 35000514 A500A400 F9086002 F8006B00 17002700 *1.....9...8..... *
00C40 40009100 96009300 7D008500 34003F00 4B009500 A9003F00 F6009800 16002606 * .....6..... *

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00C60  9400A700 F000A800 F7005E00 15122500 F3008600 A6008200 81008300 370A071C *...0...7.....3.....*
00C80  6E00E300 5B006F00 6C00D700 14002400 7C004E00 3F003F00 C900D200 360C060E *.T...P.....I.K...*
00CA0  4F00C700 E200C800 D900C400 3F000514 E500E400 4D086D00 5C001200 3F002700 *.G.S.H.R.D...V.U...*
00CC0  4000D100 D600D300 7F00C500 3F003F00 1300D500 E9003F00 4C00D800 16003F00 *.J.O.L...E.....N.Z...Q...*
00CE0  D400E700 5D00E800 50007A00 15122500 7B00C600 E600C200 C100C300 370A3F00 *M.X...Y.....F.W.B.A.C...*
00D00  0002040A 00000000 00000000 00000000 06000000 00000000 00000000 00000012 *.....*
00D20  00000000 00000800 00000000 00100000 00001400 0000000C 00000000 000E0000 *.....*
00D40  00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
LINES 00D60-00DE0 SAME AS ABOVE
00E00  17763400 21091412 88888824 88061E0F 88888888 0F061117 88888888 88888805 *.....*
00E20  88888888 1E1D000A 88888888 88883788 88881788 220C1B03 88888888 88018888 *.....*
00E40  18888888 88888888 88888237 88E4C3B4 43888888 88888888 8888F575 84D4F090 *.....UC.....5..M0.*
00E60  01628888 88888888 88888876 E88188E2 88888888 88888888 88888834 02D8A0B8 *.....Y..S.....Q..*
00E80  88231373 0B6B5B3B 07678888 88888888 89615131 49291979 45258888 88888888 *.....*
00EA0  88885232 4A2A1A7A 46268888 88888888 88888888 88888888 88888888 88888888 *.....*
00EC0  57A393F3 8BEBDBBB 87E78888 88888888 15E1D1B1 C9A999F9 C5A58888 88888805 *.3....X.....J.I..9E...*
00EE0  1688D2B2 CAAA9AFA C6A68888 88888888 54201070 08685838 04648888 88888888 *.K....F.....*
00F00  17763400 21091412 88888824 88061E0F 88888888 0F061117 88888888 88888805 *.....*
00F20  88888888 1E1D000A 88888888 88883788 88881788 220C1B03 88888888 88018888 *.....*
00F40  18888888 88888888 88888237 90E4C3F6 43888888 88888888 8888F575 84D4F0B7 *.....UC6.....5..M0.*
00F60  01628888 88888888 88888876 E881B8E2 88888888 88888888 88888834 02D8A0B4 *.....Y..S.....Q..*
00F80  88231373 0B6B5B3B 07678888 88888888 88615131 49291979 45258888 88888888 *.....*
00FA0  88885232 4A2A1A7A 46268888 88888888 88888888 88888888 88888888 88888888 *.....*
00FC0  57A393F3 8BEBDBBB 87E78888 88888888 15E1D1B1 C9A999F9 C5A58888 88888805 *.3....X.....J.I..9E...*
00FE0  1688D2B2 CAAA9AFA C6A68888 88888888 54201070 08685838 04648888 88888888 *.K....F.....*
01000  8EBABA83 9487BA8E BABABA88 8C840E8F BA91BABA 808DBA8E BABABABA BABABABA *.....*
01020  BABABABA 808D84BA BABABABA BA85860F BABABABA 92BABA81 8BBABABA 13BABABA *.....*
01040  20BABABA BABABABA BA5DBAAE BCA8AB5E 26BABABA BABABABA BABAAA1A4 2A293BBA *.....*
01060  AD2FBABA BABABABA BABABA2C 25DF3EBF BABABABA BABABABA BA5BBA23 40A73DA2 *.....*
01080  BAC1C243 C44546C7 C849BABA BABABABA BA4ACB4C CDCE4FD0 5152BABA BABABABA *.AB.D..GH...*
010A0  BABAD354 D5D65758 D9DABABA BABABABA BABABABA BABABABA BABABABA BABABABA *.L.NO..R...*
010C0  BAC1C243 C44546C7 C849BABA BABABABA BA4ACB4C CDCE4FD0 5152BABA BABABA82 *.AB.D..GH...*
010E0  BABAD354 D5D65758 D9DABABA BABABABA B03132B3 34B5B637 38B9BABA BABABABA *.L.NO..R...*
01100  17763400 4F09147F EBEBEB24 EB06EBEB EBEBBD1 0F061117 EBEBEBEB EBEBEB05 *.....J.....*
01120  EBEBEBEB 1E1D000A EBEBEBEB EBEB37EB EBEB3DEB 4C2C1B03 EBEBEBEB EB01EBEB *.....*
01140  18EBEBEB EBEBEBEB EBEBEB51 D8B493A0 E8EBEBEB EBEBEBEB EBEB0184 B8E46BEB *.....Q..Y.....U..*
01160  3707EBEB EBEBEBEB EBEBEB3B 88B78187 EBEBEBEB EBEBEBEB EBEBEBF0 904913C9 *.....0..I*
01180  EB79767A 2A4A7323 2619EBEB EBEBEBEB EB431A46 6152450B 5B29EBEB EBEBEBEB *.....*
011A0  EBEB2502 32317562 6754EBEB EBEBEBEB EBEBEBEB EBEBEBEB EBEBEBEB EBEBEBEB *.....*
011C0  EBF9F6FA AACAF3A3 A699EBEB EBEBEBEB EBC39AC6 E1D2C58B DBA9EBEB EBEBEB05 *.96...3.....C.F.KF...*
011E0  EBEB5A82 B2B1F5E2 E7D4EBEB EBEBEBEB 64201070 04085868 3834EBEB EBEBEBEB *.....5SXM...*
01200  65800140 0B401740 1F40EC40 59422D41 00C000C0 00C000C0 00C000C0 00C000C0 *.....*
01220  15800140 03400540 07403040 13420A41 00C000C0 00C000C0 00C000C0 00C000C0 *.....*
01240  01000200 01010206 01030102 02020201 01040203 07000600 06010500 05010503 *.....*
01260  05020504 020B020E 020A0209 01050207 02080701 05050702 07030300 03010302 *.....*
01280  03030304 03050306 0307FFFF 00480060 00480078 00480048 009C0060 00C800E4 *.....*
012A0  0100010C 01180124 01240124 01240130 01540016 016C0178 00C800E4 01780100 *.....H.U...*
012C0  01300184 018401D0 01CC01E0 01DC01D0 01D001F0 01F001A4 0000D798 0000D098 *.....0.O...P...*
012E0  800012EC 00000000 0000CEA4 0000CCF8 0000E028 0000E260 0000CCFC 0000D798 *.....8...S...P...*
01300  0000D098 0000CCF8 0000E028 0000E260 80001320 0000D798 0000D098 0000CCF8 *.....8...S...P...8*
01320  0000CE38 0000CE88 800012D8 0000E028 0000E260 80001344 0000D798 0000D098 *.8...Q...S...P...*
01340  0000CCF8 0000CE38 0000CE88 0000CCFC 0000CE38 0000CCFC 0000D798 0000D098 *.....8.....P.....*

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01360	8000136C	00000000	0000CEA4	0000CF8	0000CCF8	0000E028	0000E260	80001390	* . . . . . 8 . . . . . 8 . . . . . S . . . . . *
01380	0000D798	0000D098	0000CF8	0000CCF8	0000CE38	0000CF8	0000CCF8	00014AF0	* . . . . . P . . . . . 8 . . . . . 8 . . . . . 8 . . . . . 0 *
013A0	00015040	0000CCFC	00014AF0	00015040	0000CCF8	00014AF0	00015040	800012D8	* . . . . . 0 . . . . . 8 . . . . . 0 . . . . . 0 *
013C0	00014AF0	00015040	0000D798	0000D098	800013DC	00000000	0000CEA4	0000CF8	* . . . . . 0 . . . . . P . . . . . 8 . . . . . 8 *
013E0	0000CCF8	00014AF0	00015040	80001374	00014AF0	00015040	80001308	00014AF0	* . . . . . 8 . . . . . 0 . . . . . 0 . . . . . 0 *
01400	00015040	8000132C	00014AF0	00015040	800012F0	0000CE38	00014C50	00014D80	* . . . . . 0 . . . . . 0 . . . . . 0 . . . . . 0 *
01420	0000CCFC	0000DC86	0000E8D8	00013E88	00014D80	0000D120	000174B8	000174F8	* . . . . . YQ . . . . . J . . . . . 8 *
01440	000171B8	00017218	00016810	00016BD8	00000000	00014AF0	00015040	0001525A	* . . . . . Q . . . . . Q . . . . . 0 . . . . . *
01460	00012A50	00012FB4	0000CCF8	0001525A	00012A50	00012FB4	00014D80	0000CCF8	* . . . . . 8 . . . . . 8 . . . . . 8 *
01480	00012A50	00012FB4	0000CCF8	0000CCF8	00500068	00500080	00500050	00A40068	* . . . . . 8 . . . . . 8 . . . . . *
014A0	00D000EC	01080114	01140050	00500050	005000D0	00EC0080	00A40068	00D000EC	* . . . . . *
014C0	00680108	00D00108	01080154	01540160	01600154	01540160	0160012C	00015818	* . . . . . *
014E0	00015860	0000D798	0000D098	800014F8	00000000	0000CEA4	0000CCF8	0000E028	* . . . . . P . . . . . 8 . . . . . 8 . . . . . *
01500	0000E260	0000CCFC	0000D798	0000D098	0000CCF8	0000E028	0000E260	8000152C	* . . . . . S . . . . . P . . . . . 8 . . . . . S . . . . . *
01520	0000D798	0000D098	0000CCF8	0000CE38	0000CE88	800014E4	0000E028	0000E260	* . . . . . P . . . . . 8 . . . . . U . . . . . S . . . . . *
01540	80001550	0000D798	0000D098	0000CCF8	0000CE38	0000CE88	0000CCFC	0000CE38	* . . . . . P . . . . . 8 . . . . . *
01560	0000CCFC	0000D798	0000D098	80001578	00000000	0000CEA4	0000CF8	0000CCF8	* . . . . . P . . . . . 8 . . . . . 8 *
01580	0000E028	0000E260	8000159C	0000D798	0000D098	0000CF8	0000CCF8	0000CE38	* . . . . . S . . . . . P . . . . . 8 . . . . . 8 . . . . . *
015A0	0000CF8	0000CCFC	00000000	0000D560	000149E8	0000DC86	0000E8D8	00014190	* . . . . . 8 . . . . . N . . . . . Y . . . . . YQ . . . . . *
015C0	0000D120	000174B8	000174F8	000171B8	00017218	00016810	00016BD8	00000000	* . . . . . J . . . . . 8 . . . . . Q . . . . . *
015E0	00014AF0	00015040	00012A50	00012FB4	0000CCF8	00012A50	00012FB4	0000CF8	* . . . . . 0 . . . . . 8 . . . . . 8 *
01600	0000CCF8	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* . . . . . 8 . . . . . *
01620	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* . . . . . *
01640	2F862FFC	302C309A	30D22E76	2F863116	31CC31C2	32DA330A	2D503326	31CC3366	* . . . . . K . . . . . B . . . . . *
01660	31C24C90	2FDC4C3E	316E31C2	36003624	448531C2	33DE369A	33B231C2	363031CC	* . . . . . B . . . . . B . . . . . B . . . . . B . . . . . *
01680	387439BA	39023874	39E62E76	36D039E6	3D6639E6	3D363D9E	3E263D9E	3A4F3E26	* . . . . . W . . . . . W . . . . . W . . . . . W . . . . . *
016A0	39E64C90	547E4C3E	39E639F8	394E396C	44853914	3CD939E6	3D1939E8	3CA854AE	* . . . . . W . . . . . W . . . . . 8 . . . . . R . . . . . W . . . . . Y . . . . . *
016C0	386039BA	39143860	39E62E76	36FC39E6	3D6639E6	3D5C3D9E	3E263D9E	3A4F3E26	* . . . . . W . . . . . W . . . . . W . . . . . W . . . . . *
016E0	39E64C90	547E4C3E	39E639F8	394E396C	44853914	3CD939E6	3D1939E8	3CA854AE	* . . . . . W . . . . . W . . . . . 8 . . . . . R . . . . . W . . . . . Y . . . . . *
01700	3FB639BA	39E63FB6	2E762E76	3F163FAC	3D6639E6	39E639E6	3E26406A	3FDF3E26	* . . . . . W . . . . . W . . . . . W . . . . . W . . . . . *
01720	39E64C90	39E64C3E	409839F8	394E396C	44853914	3CD939E6	3D1939E8	3CA854AE	* . . . . . W . . . . . W . . . . . 8 . . . . . R . . . . . W . . . . . Y . . . . . *
01740	1ACC1D96	1D961D96	1D961D96	1D961AA2	1D961D96	1D961D96	1D961D96	1D961AA2	* . . . . . *
01760	1D964C90	1D964C3E	1D961D96	1D961AA2	1D961D96	1D961D96	1D961D96	1D961AA2	* . . . . . *
01780	B8008A3A	B80089FE	B8008A5C	B8000000	B8008AA8	B8008B98	B8008B60	B8008BC8	* . . . . . H *
017A0	B8008C48	B8008C22	B8000000	B8000000	B80089E8	B8008034	B8008DA8	B8008A96	* . . . . . Y . . . . . *
017C0	B8008B10	B8008C38	B8008D08	B800C2B2	B800C2A0	B800C2C6	B8007C58	B8000000	* . . . . . B . . . . . B . . . . . BF . . . . . *
017E0	B8000000	B8000000	17D80000	00000B2B	00000000	00000000	48000000	14000000	* . . . . . Q . . . . . *
01800	00000000	00000000	00040000	17D80000	00000B2B	00000000	00000000	48000000	* . . . . . Q . . . . . *
01820	14000000	00000000	00000000	00040000	A800837E	E2FBBC20	191CA9C6	A8982F53	* . . . . . S . . . . . F . . . . . *
01840	EA1A292E	D14029AE	254A55F8	55F8258F	20CAFF08	2539D5C1	25B9AC82	EADAC3FF	* . . . . . J . . . . . 8 . . . . . 8 . . . . . N . . . . . C . . . . . *
01860	983C457C	F4389836	2D329508	2DB2B510	99982D41	CD2C253B	982A254A	55F855F8	* . . . . . 4 . . . . . 8 . . . . . 8 . . . . . *
01880	258F20CA	FF062539	D50125B9	BC001A88	282FE080	CC0C28AE	F7028C42	AA5C8700	* . . . . . N . . . . . 7 . . . . . *
018A0	2FB2A966	2539D408	FF02D501	25B980C2	292F0148	29AEA81B	273B981F	2539BC20	* . . . . . M . . . . . N . . . . . B . . . . . *
018C0	108054C8	8829254A	55F855F8	258F20CA	BC001A88	A9F6CA02	A83DC3FE	88418707	* . . . . . H . . . . . 8 . . . . . 8 . . . . . 6 . . . . . C . . . . . *
018E0	2FB2A926	A80083FF	D201BC20	18F2A912	A8002F53	FF14819D	837E4154	BC001A88	* . . . . . K . . . . . 2 . . . . . *
01900	FF02A8F2	BC201ACC	A8F8819C	A815A800	837ED201	BC20191C	A8E8ACC2	B920FFFF	* . . . . . 2 . . . . . 8 . . . . . K . . . . . Y . . . . . B . . . . . *
01920	21B3E2FA	2B58BC20	192EA820	ACB02B59	DB8A2F36	8812BC20	195CA810	2F53DF82	* . . . . . S . . . . . *
01940	A811819A	4154A817	BC201992	43442733	77CC27B3	24A524D7	B840AC82	253E5310	* . . . . . P . . . . . *
01960	2836B894	27427501	881C5598	559825C2	58035F02	95047518	28B625BE	43442733	* . . . . . B . . . . . *
01980	77CC27B3	B840BC20	199224A5	24D7A819	AC4C2B33	C3FFBC20	199EA866	AC402B32	* . . . . . P . . . . . C . . . . . *
019A0	C3FF8199	4154BC20	19AEA856	AC30837E	D201BC20	19E024A5	24D74344	2859D882	* C . . . . . K . . . . . P . . . . . Q . . . . . *
019C0	B8402753	FF02CF82	B840221F	26314604	85854554	BC201ACC	24A524D7	B840A800	* . . . . . P . . . . . *

019E0	E2FB2859	2753CFD8	D8A48598	2DB9819D	4154BC00	1A88282F	E080C0C0	28AEBC20	*S.....QQ.....*
01A0C	1D964344	24A524D7	B8404344	A807D608	FF02E6BF	2ED22C38	88148598	2DB9BC00	*.....P.....O...W...K.....*
01A20	1A882950	E93683FF	BC201A5C	A82DFF0F	EE82A802	FE15241E	44024929	49B0A81F	*.....Z.....*
01A40	D882A85B	221F2941	D18029C1	24354808	292F0148	29AE2223	A871A800	E2FB819C	*Q.....J...A.....S....*
01A60	41542F53	F7409873	BC201A70	A86DA800	2727E7EF	27A72F41	D7802FC1	24354808	*.....7.....X.....P...A....*
01A80	292F0148	29AEA872	0139880E	12AD02B9	20AD2539	25BB20B9	409802B7	71C4A813	*.....D....*
01AA0	A8202557	25A5415C	E80E2F41	E77F2FC1	292EE1BF	29AE5088	212FD080	104828AE	*.....Y...X...A.....*
01AC0	50882557	25A5A502	A825A82E	2F53FF0F	85808410	25B9BC20	1ADEA8DB	A81CA80E	*.....*
01AE0	2BD8B920	FFFF21B3	BC201B06	A9A32F0C	37488815	2F0CB7FF	881B8185	4154BC20	*.Q.....*
01B00	1ACCA903	A80DEABD	2FD94344	273377CC	27B3FBC4	85342DCF	E5E12DB9	254A982A	*.....R.....D....V.....*
01B20	BC001D54	25CA25C2	2B403518	25BEA305	30282948	21B72F53	FF06292E	E1BF29AE	*.....B.....*
01B40	BC201C10	24A524D7	B8400807	5701882B	84208534	25B9AA56	FB34E30C	880CB304	*.....P.....T.....*
01B60	8824B308	882485A2	A802851C	2DCFE5E1	2DB9BC20	1BD824A5	24D72F53	FF06292E	*.....V.....Q...P.....*
01B80	E1BF29AE	B840851E	A81F850E	A8232F53	FF2AB373	8812B3BF	8812B317	8812B397	*.....*
01BA0	8816B31F	880EA843	85BCA841	85BEA89B	85ACA849	85B6A84D	8562A8A7	B353880A	*.....*
01BC0	B393880A	B317890A	A86585A8	A86385B2	A86785AC	A86BA9C8	EA94BC20	1BE2AA95	*.....H.....S....*
01BE0	A9BEEA8A	BC201BEC	AA9FA9B4	EA9A2539	D4402D4F	273B980C	25B9BC00	1A888410	*.....M.....*
01C00	8580A9AA	D408A9A6	273B98DC	A856A990	EAB84344	273377CC	27B3253E	2137B88C	*...M.....*
01C20	B9922539	E5E1D504	25B9A982	533025BE	29B6B840	29B7BC00	1D542742	548844F8	*.....V.N.....8*
01C40	44F87481	25C29504	A81F2542	0F0F2E36	67285F83	273B989E	244A8808	44F844F8	*.8...B.....8.8*
01C60	248F20CA	295929C7	25392D4F	2133BF20	F0B817C0	8814D410	25B9BC00	1A888410	*.....G.....O....M.....*
01C80	858025B9	BC201ADE	AA89E4EF	2959D982	A81BD501	25B9BC00	1A882153	F91A292F	*.....U...R...N.....9....*
01CA0	E180C1C0	29AE2953	C982A832	2D0DFD82	A82CBC20	1D9CAAB7	C9B7A822	D4082D4F	*...A...I.....I...M....*
01CC0	2133BF20	F0B817C0	98E4E4EF	2959D982	A8DCBD501	25B980C2	292F0148	29AE8185	*...O...U.U...R...N...B.....*
01CE0	4154BC20	1D96AAE7	2753F614	9833BC00	1D545083	A80A2753	F5149841	254A5F82	*.....X...6.....6.....*
01D00	50875788	55F855F8	24179804	2595A806	44984498	45872597	20CA2959	798A2539	*.....8.8.....*
01D20	2D4F2133	BC20F0B8	41C0880A	80108180	21B97589	A8B320B9	E4EF2858	290C1048	*.....0.....U.....*
01D40	8806B1FF	8802858E	2959D982	A823D501	7589A8BB	0755B708	9802BFA0	66689807	*.....R...N.....*
01D60	0D09C2DA	BF96D580	0D890757	07D5BD20	0446BF20	01FC7582	75D4A802	07D50546	*.....N.....N.....M...N...*
01D80	08075701	77987798	07C65081	40882539	8584A81A	A8004344	AB93A800	4344AB99	*.....F.....*
01DA0	2539D4A0	CA02E4DF	DA02E47F	2D4F25B9	2F53FF0A	BC20183E	81974154	ABBD274A	*...M...U...U.....*
01DC0	980420B9	AACD213B	980E77F8	77F8278F	20CABC00	1A88AADF	D40825B9	A82B2539	*.....8.8.....M.....*
01DE0	D48025B9	20575000	00000000	D6202000	C3E7C2E2	C4D3C340	CF84251E	A804251F	*M.....O...CXBSDLC.....*
01E00	551EA802	25225502	2959D984	E6BFA80A	D608FF06	E6BF5829	58B0F992	53239301	*.....R.W...O...W...9....*
01E20	53A35315	88085B29	9322E3EE	5BA92ED2	B8002580	2959D984	E6BFA806	D608FF02	*.....T...K.....R.W...O...*
01E40	E6BF2ED2	B8002580	FD82A804	E6F72ED2	251E5502	2947F982	A85AF104	98065B21	*W.K.....W7.K.....9...1....*
01E60	E3DD5BA1	D982A806	5928E1FE	59A8BC00	20162753	51339838	5938B140	980C2904	*T...R.....*
01E80	D1012984	810059B8	ADC6592D	C902A80A	EE0880B0	28BBB800	255E5123	F0808810	*J.....F...I.....O....*
01EA0	EE0EFP02	A802CE88	80B028BB	B800255E	B8002594	5821D982	A810E0DD	5F24EF82	*.....R.....*
01EC0	A806D090	D6202ED2	A802E0FD	58A15828	1048E00E	98CC77C8	230F3398	33982840	*...O...K.....H.....*
01EE0	A0040907	3401980C	3903A102	01283183	1708A852	01283183	17184498	44980048	*.....*
01F00	09073688	43883401	880A3183	17984498	4498A813	3903A102	98088810	31831718	*.....*
01F20	A81E3083	6903A101	6983A701	6081BE20	05A8618E	B9201F40	618A8120	B800A49A	*.....*
01F40	230F3398	33983789	BE2005A8	5F24FFA6	0909D902	A812618E	B9201F64	618A8120	*.....R.....*
01F60	B800A49A	11C8A80C	EF86B901	0B88A804	B9011A98	A8085488	B900F708	45881108	*.....H.....7.....*
01F80	8812B106	8806B104	8802A808	59389101	59B8A80C	810059B8	59289122	E1EE59A8	*.....*
01FA0	A818BC00	249A5938	910159B8	5B21EB82	A8085A28	FA84CE86	A81C208F	A9512423	*.....*
01FC0	4B59FB86	BB201FCC	43CDA813	BC20200A	221F2753	A804BC20	2010251E	55025928	*.....*
01FE0	D10159A8	5C188509	E1E01558	E9002B58	11C829B6	BD202010	244D45C8	980A221F	*J.....H.....H.....*
02000	251E5502	2F53A84F	B8408100	29D9AA0D	810129D9	AA13648A	66062947	E1E0285A	*.....R...R.....*
02020	10488862	5E30E6E0	5F29E7E0	53153398	339888DE	380AE0E0	7138883C	61388838	*.....W...X.....*
02040	01388888	0738981A	88D40138	98D01738	98CC1638	9822618E	50B3BC00	208A610E	*.....M.....*

02060	A86A1038	98067138	9808A8B2	6738981F	A81D6738	9802A827	29DA77C8	50B350AB	*.....H....*
02080	5FACBC00	208A6602	600A648A	62926606	5F2F1038	88203207	22982298	618EB920	*.....*.....*
020A0	20AA618A	8120B800	A49AA701	23888816	380AF0E0	A8253188	11F811F8	51955FAF	*.....8.8....*
020C0	66026212	600A5095	5097A80F	285A29DA	E0019804	6602600A	5F21E77F	5FA177C8	*.....X...H*
020E0	5FAF3B0A	5BA92488	53889310	95145288	618EB920	20FE618A	8100B800	A11EA514	*.....*.....*
02100	4288253B	E5E1D50C	25BE2753	BC00232E	A88D1748	980850B3	50AB5BAC	A8992753	*.....V.N....*
02120	293BE101	D1A429BB	AB26E6F7	2ED2AC2E	E6F72ED2	230F3398	33982840	A0043903	*.....J.....W7.K..W7.K.....*
02140	A1020128	31833401	8802A810	B1068802	A80A33F8	33F82393	208FA804	E80021DA	*.....8.8....*
02160	BC0024E8	29585998	ABF4E6F7	2ED2BC00	24E877C8	50B350AB	5FAC2753	AC16221E	*.....Y.....4W7.K..Y.H.....*
02180	22602276	21BE21BE	21BE227C	223C21BE	21BE228A	22902296	21BE21C8	21C6253B	*.....*.....*.....*
021A0	22602276	21BE21BE	21BE227C	223C21BE	21BE228A	22902296	21BE21C8	21C6253B	*.....H.F...*
021C0	20BBB800	625EA800	BC002490	F4FF9958	291CE140	8804B5BD	8B84D440	2CBAA948	*.....4.....M....*
021E0	BC002490	F4FF9940	A811BC00	2490F4FF	9936B5BF	881DBC00	24E85921	D12059A1	*.....4.....4.....Y..J...*
02200	C102F902	ABBF59A1	D6202ED2	233BF82	A804E6F7	2ED2BC00	20162753	AB62DC82	*A.9.....O..K....W7.K.....*
02220	A814B5A0	8802A8C2	8560B580	8802A802	85A0E4EF	25BBE5F7	2ED2A8EC	BC002490	*.....U...W7.K.....*
02240	F4FF98E4	F5FEB58E	88DEBC00	24E85B21	EB8A253B	E501D5A2	25BBA810	253BAC19	*4..UV.....Y.....V.N.....*
02260	BC002490	F4FF98C0	B5638802	A9E2230F	2393208F	A9DABC00	2490A8AC	BC002490	*.....4.....S.....*.....*
02280	85AD25BB	A9C6B800	97B0BC00	2490A898	BC002490	A9B6E6BF	2ED22B59	FBBA291C	*.....F.....W..K.....*
022A0	F982A808	251E2920	1518A81A	214DBB20	1DF831B0	8802A80C	CF84251E	A804251F	*9.....8.....*.....*
022C0	551EA802	25225502	5315880C	5B299322	E3EE5BA9	81FE29C6	2F53FF2A	2B59F301	*.....T.....F.....3.*
022E0	8824F740	8802221F	21351808	292F0148	29AEB920	1D9621A5	21D7F740	88022223	*..7.....P7.....*
02300	2E52D608	2ED22A09	92012A89	CA16233B	E2716108	E1061258	D288238B	2A04D280	*..O..K.....S.....K....K..*
02320	2A88A802	A9EAA58	BC00232E	AA52648A	BC00249A	CC36E5FE	B5348802	A82EF470	*.....V.....4.*
02340	882ABC00	24E85838	8802A804	BC0024B8	58389001	58B8B040	98102804	D0012884	*.....Y.....*.....*
02360	8C0058B8	BC202450	648AA89A	BC0024E8	BC0024B8	5A2D9201	5AAD2A02	F2409880	*.....Y.....2..*
02380	EE02A816	2B3BC32C	9804B800	25C0BC20	240824CD	BC2000FF	24D52B4E	90010338	*.....C.....N.....*
023A0	981858B2	DA82A810	2B1CFB86	D6202ED2	A8062B20	A3042BA0	A8448000	58B2233B	*.....O..K.....*.....*
023C0	DA92E3FE	B30E880C	B30C8808	B32C8804	F31F9824	5B345933	910159B3	1338980C	*..T.....3.....*
023E0	5921D110	59A10163	51B7A80A	810059B3	BC202450	648AA806	BC202450	648AA806	*..J.....*.....*.....*
02400	BC202450	648A600A	BC00249A	FD84F51F	9812E6F7	2ED2C51F	980ABC00	24E85921	*.....5...W7.KE...Y...*
02420	D12059A1	A95ABC00	249AFD98	F51F8814	F6488810	812071E4	2838D004	28B820BB	*J.....5...6...U.....*
02440	71F4B840	E006818C	21BBA912	F4FF9929	EE02A818	BB20246E	23CDBB20	00FF23D5	*.4.....4.....N*
02460	233B238B	2B042B88	20BBB840	A8AABC00	249AFD84	F51F9814	E6F7FF02	A802E6BF	*.....5...W7...W.*
02480	2ED2230B	23BB2B08	2B84A88C	20BBB840	FD82A804	E6F72ED2	4088230F	88186606	*.K.....W7.K.....*
024A0	33983398	618EB920	24B2618A	8120B800	A49A6602	208F4088	5133982A	273BE651	*.....*.....W.*
024C0	2A045AAC	8802D680	23272A52	E206DB82	A80ED608	2B59FB84	D60AA802	2658A802	*.....O..S.....O...O...*
024E0	265857AB	27534088	251E291C	F982A804	29201518	55024088	E6B72097	2095E6EE	*.....9.....W...W.*
02500	D6062ED2	BE2024FA	26CDBE20	05A8A8DA	6008E006	E471A816	6008E006	253BE451	*O..K.....U.....U.*
02520	2327DB82	A80A2A59	FA84800A	A802D008	40582804	8802D480	25BBCF82	A81AD610	*.....M.....O.*
02540	DF08E6F7	21231ED2	A808E6BF	2ED2221F	2F53F648	898CA802	A9882ED2	B84C8000	*..W7..K..W..K...6.....K..*
02560	28BA2884	CF82A97A	D6102ED2	DF062123	1ED2A806	221F2ED2	2F53F648	8964B840	*.....O..K.....K...K...6...*
02580	F7408810	DF02A80C	208520BB	221F2ED2	2F53A856	20858320	73E42415	883C4498	*7.....K.....K.....U.....*
025A0	44984107	98022097	219573F4	490A29C7	450925BB	41039816	618EB920	25C8618A	*.....4...G.....H...*
025C0	14828100	B8009560	00000000	A80644F8	44F8248F	B8005E6A	A80420BB	73F4DF04	*.....8.8....4...*
025E0	21231ED2	A804B840	20BBDEB2	CEAECF02	A80EBC00	2CFE9806	BC002CD4	A802A824	*.....K.....M.....*
02600	EE02A804	CF9EB840	231E3101	E1FC1188	88083502	5821E0FE	59A1A980	A804F648	*.....*.....6.*
02620	88C0B840	CF82A804	22232F53	2322E6FE	35029856	3101E1FC	13A8C601	FEC8CE44	*.....W.....F..H...*
02640	241F481C	8802A83C	453B9838	4539B520	8802A830	431E3502	882A5821	E882A824	*.....*.....Y...*
02660	0B09CB20	5A285C18	85E1D21F	25682159	E1EF51C0	880EBC20	1D9FB900	2B588100	*.....K.....8.....*
02680	29B6A800	B8409304	35025821	F0B18834	D8A2F001	881423A2	29465B31	51389802	*.....O...Q.O.....*
026A0	A804F0A0	8802A802	B8409304	810029C6	A883A810	BC002C96	F0B18808	93048100	*.0.....F.....0.....*
026C0	29C6A895	BC002AAC	CE9411C8	29468808	5D315138	8802B840	28C69304	A8AF23A2	*.F.....H.....F.....*

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026E0 B840E6E9 2904253B CF82A83A 2423BB20
02700 453B40BB 4ED2A80E 20BB4ED2 433B8806
02720 C2C04AAE A80220BB 29842587 2ED22315
02740 A49A4388 9815E5E0 9802A82C 282FE080
02760 2189512B 218B2947 29852107 B1848806
02780 35069304 8102BC00 2BDA3506 980DBD20
027A0 E6DF3502 98303101 13A8239E FEC0D601
027C0 9802A806 D6802ED2 AA4BBC00 2CD4231E
027E0 BC002C96 D882A802 A84FA956 B840231E
02800 A815A866 28448848 26318320 73E44604
02820 2435490B 282F1048 28AEB920 25E821CD
02840 B9202518 21CDB920 00FF21D5 B840A81A
02860 AAE3BC00 2CD4231E A8CFA880 511FC802
02880 54138808 8102BC00 2BDA511F F040985E
028A0 5E182A45 2AC48200 F1409852 F1809860
028C0 F88AE884 8112A802 8116A802 810E29C0
028E0 2C60BC20 1E34E900 2B582AB6 B840299C
02900 216A21CD B920FF80 21D550A9 8793A855
02920 B9202130 21CDB920 FFBF21D5 87BFA875
02940 A887E6FE 2ED2239E 5921F104 98B8CF82
02960 323898A2 88A0F1A0 989C5B2F 32388896
02980 22232F53 2ED2BC00 2AACCECE 59215B2F
029A0 98063101 13A89304 23A2221F 2F53231E
029C0 2ED221F 2F532ED2 A80ECF82 A806221F
029E0 21CDCF82 A8062ED2 221F2F53 2ED2A814
02A00 28C6A802 B840581E 289C5835 28825824
02A20 28C0E984 D10159A1 214A882A 62926396
02A40 618A8120 B800A49A 20CA6602 62126316
02A60 BB201E48 23CD2A5A D2012ADA 5A285C18
02A80 C3100B89 DB8AD604 B920FE1C 85F5A808
02AA0 1DF8B900 2B588100 29B6B840 648A512F
02AC0 88068100 29C6A88E 29C6592F 910159AF
02AE0 50915093 5921D180 59A1A804 51914087
02B00 44F844F8 51179804 5495A806 11981198
02B20 850E1568 E0E00558 498A2753 CF8EB920
02B40 B9002B58 641A4103 29B624C2 01089104
02B60 DF0A2ED2 22232F53 24CDA806 24CD241F
02B80 75E44404 2527D510 25A7455C EC302D49
02BA0 4564A812 BD20197C 25A525D7 55C84554
02BC0 191C25A5 25D78599 45548520 75F42435
02BE0 50AB50B3 800058AF 58AC5821 E0CCD0C0
02C00 22982298 280A38A9 A8042298 2298298D
02C20 B800A11E 3211881A 22982298 298D2207
02C40 A11E3286 618EB920 2C56618A 629267A2
02C60 BE201D96 212561C8 98262631 812071E4
02C80 21D78120 71F42135 1808292F 014829AE
02CA0 34B09810 13189340 92579808 A340A257
02CC0 92579802 A80634B0 98068804 E0FF58A1
02CE0 22232191 221F4088 B92054AB DF062323
02D00 BC002CE8 9802A836 6292D680 DF062ED2
02D20 258023CD BB2000FF 23D5910A 88029804
02D40 50000000 D6202000 C3E7C5D3 D5D24040

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* . WZ.....O.. N.....*
* ..K.....K.....S.*
*B.....K.....*
* .....4.....Y..*
* .....V.....*
* .....O..N.....*
*W.....O..K.....D...D...Y*
* .....O..K.....M.....H...Q...*
* .....Q.....*
* .....U.....P..4..*
* .....Y.....N.....W..K*
* .....N.....D.....Y.....O..K*
* .T...M.....H...Q.H.....*
* .....0..8...O.W.K.....*
* .....D..1..1.....*
*8.Y.....*
* .....K.....*
* .....N.....N.....*
* .....N.....N.....*
* .W..K...1.....*
* .....1.....R1...H.....*
* .....K.....*
* .....O.....*
* .K.....K.....F..O...8*
* .....K.....K.....*
* .F... ..8.Y.....*
* .Z.J.....*
* .....*
* .....K.....W9.....R...I.*
*C.....O.....5..O...O..1.NK....*
* .8.....*
* .....F..F.....W.....*
* .....J.....8.....H...*
* .8.8.....*
* .....N.....*
* .....B.....O.....*
* .K.....K.....N.K...R..*
* .U...N.....P.H....*
* .....P.H.....V.....*
* .....P.....4.....*
* .....*
* .....H.....U..H.....*
* .P..4.....*
* .....*
* .....W.....*
* .....*
* .Y.....O...K.....K.K.*
* .....N.....D...B.....*
* .....O...CXELNK .....VON.....*

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02D60	43440028	28B628C7	B8402C37	BC9E2142	15018810	55985598	25C25103	95040518	*.....G.....B.....*
02D80	25BEA80A	2F482FB7	11A0A822	41082435	481321B7	112829B9	2127D11A	43442C41	*.....J.....*
02DA0	E4DF2CC1	AEA0455C	ECBC2C41	EC452D51	455428BC	43442753	FE262742	8820253E	*U..A.....*
02DC0	75A8A504	09071528	88021518	2D8D77F8	77F82791	20C28104	29C02948	29B7B840	*.....8.8..B.....*
02DE0	2937880B	B8404344	2127C11A	150125A5	2F41DF22	21A78501	2DB6CF0C	24354D04	*.....A.....*
02E00	2C2F5448	2CAEB840	E77F2FC1	292FE180	C1C029AE	B840E7DF	2FC1E1FE	21A7E2FD	*.....X..A...A...X..A...S.*
02E20	4344273B	98A22539	25BB2D47	2DBC20B9	2FC70539	880652AD	02B9B840	02B771C4	*.....G.....D.*
02E40	A80B2435	4D0D4554	A82D2127	C106E1DF	E99C1501	25A52948	A1012539	D51C25B9	*.....A...Z.....N...*
02E60	2E3DD680	2EBD2753	D6012ED2	A86E2539	D50425B9	A859283D	E07F28BD	213B9842	*..O...O..K...N.....*
02E80	253925BB	415CE806	E5E125B9	A80820B9	2941E1DF	29C12D47	2DBC0139	881E12AD	*.....Y.V.....A.....*
02EA0	02B91148	29C72753	EF0A212F	E0BFD080	104828AE	21271501	25A55088	02B773C4	*.....G.....D.*
02EC0	A8232539	858A25B9	2941E1DF	29C12127	E1C0D120	21A71501	25A5B840	0755B708	*.....A...J.....*
02EE0	9802BFA0	66689807	0D09CD5C	BF96D580	0D890757	07D5BD20	0446BF20	01FC7582	*.....N...N.....*
02F00	75D4A802	07D50546	57017798	779807C6	50812442	980625CA	0810A80A	578877F8	*.M..N.....F.....8.*
02F20	77F84781	080725C2	2F408810	70287518	77282FC0	21B75330	25BEB840	950421B7	*.8...B.....*
02F40	53304344	25BEB840	25398584	25B92753	EF082127	E1C11503	25A5A93F	253E21B7	*.....A.....*
02F60	533025BE	B840254A	25C21518	08101028	880A1148	29C02948	A101A81F	28C02948	*.....B.....*
02F80	B982A93B	A8AB2733	434477BC	CB26CBA4	25453518	5D004448	5090A814	AC50AC6E	*.....*
02FA0	ACBEAD16	AD3EACD8	AD06AD44	AD52AD62	2127D904	FA14B840	E9A0E1C1	21A71501	*.....Q.....R...Z..A...*
02FC0	25A52539	D50125B9	A81727B3	2137B8F5	B9862940	898DA873	A8FFE929	27334344	*...N.....5...Z.....*
02FE0	77BCCB0C	CB8A2545	35185D00	8802A85B	2127C128	21A71501	25A5A849	43442435	*.....A.....*
03000	4C163438	880A490D	415411A0	4164AA33	2127C103	21A71507	25A52D3D	F5F09808	*.....A.....50.*
03020	85C42C2F	54482CAE	B840A9EB	43442127	F98C2BC7	D10121A7	2C41EC36	B8402539	*.D.....9..GJ.....*
03040	30082947	273317C0	8802C410	2127E1C0	D10821A7	2A52FA92	110121A5	C4102303	*.....D...J.....D...*
03060	DA9225B9	2C41EC0A	B8402A3D	E27F2ABD	A81B8A9	43082F41	E390CB0C	E7907458	*.....S.....T...X...*
03080	25B92759	9806A8BD	C3A0A811	3658253E	A5015630	730820D9	A8CF4344	CB22CBA0	*.....C.....R.....*
030A0	27453718	7D004448	5090A814	AB40AB5E	ABAFAAC0	AC2EABC8	ABF6AC34	AC42AC52	*.....H.6.....*
030C0	21272539	D50125B9	E1FE21A7	FA02B840	A9074344	2127F99C	3508E50F	C50F8830	*...N.....9...V.E...*
030E0	2C2EE43F	88242539	E5E1D440	33A04344	25B9AB30	E1C0D102	21A71501	25A52435	*.U...V.M.....J.....*
03100	490B282F	104828AE	AAC98780	860827B9	D10121A7	B8404344	2127F98E	2BC7D101	*.....I.....J...9..GJ.*
03120	434421A7	2C41EC28	B8403008	29472539	273317C0	8804D410	25B92127	E1FC21A7	*.....M.....*
03140	110121A5	20B32303	DA882C41	EC02B840	A9874308	2F41E390	8808E46F	25B9CB0A	*.....T...U.....*
03160	37582FC1	275998DD	A99FC3A0	A80D4344	2127CB06	CB82A9E9	DB142127	E1C121A7	*..A...C.....Z...A...*
03180	150125A5	2539D402	D50125B9	A9DB3508	9819E1DE	BF2031B2	E50F5718	7F00CF02	*.....M.N.....V.....*
031A0	A80AE77F	2553EC02	C710C710	25397558	AA929C8C	0A0A0A0A	0A0A0A0A	0A1E1A0E	*.X...G.G.....*
031C0	0A0A4344	2435490D	4154ABEF	2B472733	434475BC	25B3CB24	CBA22435	21272547	*.....*
031E0	5D004448	5090A814	AB36AB36	AB72AB90	AB8EABA4	ABE4ABF8	ABFCAC00	2137B8A0	*.....U.8.....*
03200	21421501	88265598	559825C2	51039504	05181008	881728B6	571025BE	2FC7B840	*.....B.....G.*
03220	253E28B6	571025BE	2FC7B840	2435F9C8	2139E0FE	21B92435	2503EC12	2E41EE2A	*.....G...G...9H.....*
03240	DD064F19	2FC7B840	4F2B2FC7	B840BD20	00D225C2	2127C10A	21A71501	25A58590	*.....G...G...K.B..A...*
03260	2DB92753	D6012ED2	AC49BF20	010127B7	2127E1C0	D118A9CE	2753FE04	CE1CA804	*...O..K.....J.....*
03280	2303EB28	254A25C2	2F405103	01187128	75189504	10088899	A808E67F	2ED22516	*.....B.....W..K...*
032A0	281421B7	56102EC7	25BEB840	4588CE14	DE04DE9A	A5029522	11A0DB84	2948A81F	*.....G.....*
032C0	8101A823	CE829504	9524A815	A8174D27	20C22DC7	E6EF2ED2	B8402127	F9982B33	*.....B.GW..K...9...*
032E0	D1012E41	EE064344	21A7B840	2F477348	434421A7	A8FB2B32	C10D2E41	EE044344	*J.....A.....*
03300	AA0C2F47	73484344	AAE02127	F9922435	4B16D101	252FD480	54482CAE	A8394B16	*.....9...J...M.....*
03320	C1014344	A9202137	B002881C	B8AE2E52	CF84CE02	DE2C29B6	253E5710	2FC725BE	*A.....G.....*
03340	2127E1F1	4344A8FE	24354B16	2C53DC82	A827455C	4508C503	4554A831	434421B7	*..1.....E.....*
03360	B84081FF	A8312127	F9962B33	D1012E41	EE0C4344	21A72303	DA82B840	A983A895	*.....9...J.....*
03380	2B3220B3	2503ED90	E1FC21A7	150125A5	2E41EE08	4344A99D	FC0AA815	2F477348	*.....*
033A0	4344A9A9	E1C0D116	21A71501	25A54344	AD912B47	27334344	75BCCB14	CB8425B3	*.....J.....*
033C0	A9E9DB02	A80A3308	98062127	E1DFAA0E	2127E1D7	21A727B3	150125A5	A9E3B302	*.Z.....P.....T...*

033E0	8A172127	C12821A7	150125A5	AA232127	2539F986	E994D440	A822D904	D560A838	*. . . . . A . . . . . 9 . Z . M . . . R . N . . . *
03400	F440D560	C12577A0	A812E1DF	A8142127	2539F9A0	D916E990	D440D10C	33A04344	*M N . A . . . . . 9 . R . Z . M J . . . . *
03420	25B921A7	150125A5	FA2CB840	D12C2503	DCA6A813	D918D520	C10D20B3	232FD280	*. . . . . J . . . . . R . N . A . . . . K . *
03440	32482AAE	25E921A7	150125A5	B840D540	C10520D9	A81DAC8F	25599501	25D9A83F	*. . . . . N A . . R . . . . . R . . . *
03460	2127F998	27B3D90C	C128E982	A8292503	DC9BA853	E1FD2503	DCA3A85B	D128A83B	*. . 9 . . . R . A . Z . . . . . J . . . *
03480	2127E9A8	2539D508	D90CE1FE	21A7E1C0	D10825B9	A84FF982	A8262F49	CF02A820	*. . Z . . N . R . . . . . J . . . . . 9 . . . . *
034A0	858820D5	BF204D96	27CDA823	27B3A889	2127E989	2539D50E	A8312539	2127E988	*. . . N . . . . . Z . . . N . . . . . Z . *
034C0	D440E2FD	4344A885	D514E1C4	27B3D410	25B92553	FC862459	98B9A897	2C3DD480	*M S . . . . N . D . . M . . . . . M . *
034E0	2CBDA80F	21272539	E982A82D	D512A827	2127E982	B840212F	D0801048	28AEB840	*. . . . . Z . . N . . . . . Z . . . . *
03500	2127E1FE	21A72539	D506E1C0	D10825B9	A8CB2127	2539E982	A85BE1C0	D10EA8FF	*. . . . . N . . . . . J . . . . . Z . . . . J . *
03520	E1DFE990	20B3D11C	21A71501	25A52C41	EC06AABD	D911AB3D	2836B896	21421501	*. . Z . . J . . . . . R . . . . . *
03540	8AD95598	559825C2	51039504	05181008	A802253E	57102FC7	25BE4344	28B6B840	*. R . . . . B . . . . . G . . . . . *
03560	F912C128	21A71501	25A52753	FE02AB75	253EAB51	E1FD21A7	150125A5	2836A8C0	*9 . A . . . . . *
03580	E1D4252F	D4805448	2CAE2E41	EE02A94B	21A71501	25A5AB9D	E9A42C41	2E52E63F	*. M . M . . . . . Z . . . . . W . *
035A0	EC302ED2	DC1AD420	2CC18401	25B7E1C0	D1182539	D9048598	A977859C	A97BABC5	*. . K . M . A . . . . . J . . R . . . . . E *
035C0	C4202CC1	2C52E43F	2CD28401	2CB6D118	A98D2D36	E6D72ED2	A835E98C	D1182C41	*D . A . U . K . . . . . J . . . . . WP . K . Z . J . *
035E0	EC088401	2CB6A9A3	ABEF2D36	2DB7A80F	E1C0D118	A819E1C0	D11EA87B	27B3AC05	*. . . . . J . . . . . J . . . . . *
03600	27334344	77BC8510	35388812	F0A2B840	2503DC82	AE4D2559	950125D9	AE552127	*. . . . . R . . . . . *
03620	D106A9DF	2127E1ED	21A71501	25A5AEAB	2B472733	434477BC	81103138	884027B3	*J . . . . . *
03640	2836B8D2	23032142	15018806	55985598	AC492739	E6FE27B9	2E41EE20	87102FC7	*. . K . . . . . W . . . . . G *
03660	2535DB02	A512952B	57102FB6	2127D101	21A7212F	D0801048	28AEB840	AC312127	*. . . . . J . . . . . *
03680	D1061501	25A5F984	21A7B840	E1FE21A7	2F362FC7	B840253E	AC792435	2127F988	*J . . . . 9 . . . . . G . . . . . 9 . *
036A0	4B202753	CE04AB97	AB8DC6C0	2ED2C12A	253E5310	434425BE	A92B5000	00Q00000	*. . . . . F . KA . . . . . *
036C0	00000000	D6202000	C3E7C2C2	E2C3E240	3308990E	27333648	73582145	31181101	*. . . . O . CXBBSCS . . . . . *
036E0	03088000	1090A83E	A83CA83A	A8A8A836	A8CCA896	A89CA894	A8F2A91A	330898E2	*. . . . . 2 . . . . . S *
03700	27337358	21453118	11010308	80001090	A814A812	A810A8CA	A80CA8A2	A86CA872	*. . . . . *
03720	A86AA8C8	A8F02EB2	4344FA02	B8402137	B8D0B988	29408804	B8002F66	27428820	*. . H . O . . . . . *
03740	254A75B8	882A0D07	2C5A8804	A4034528	95015578	2C5B5418	98242CDB	84002CDA	*. . . . . *
03760	2937B9A2	212FD0C0	104828AE	B8002E4A	0D077C02	2903D982	2C0C4528	A83784FF	*. . . . . R . . . . . *
03780	A829B800	215FCB80	2EDCD780	434427B3	B840E77F	A80B2127	E1C11505	25A52435	*. . . . . P . . . . . X . . . . . A . . . *
037A0	4808292F	014829AE	21531580	E406B406	8808D010	28D227B3	A81CD80B	A8092539	*. . . . . U . . . . . K . . . Q . . . *
037C0	D50825B9	2127E1C1	21A72435	4900B11C	8804E77F	2FB32840	88422127	E982A934	*N . . . . A . . . . . X . . . . . Z . . . *
037E0	AE862539	D41025B9	833FA8C7	295B29A0	810029DB	294088C4	29DAA8D7	213E2542	*. . . M . . . . G . . . . . P . . . *
03800	51A8244A	45B88802	A8135C02	2D03DD82	2C0C4128	A81F817F	29DBA8F7	2142253E	*. . . . . 7 . . . . . *
03820	15A8A504	274A71B8	882A2C5A	8808A403	45285508	88142C5B	44189814	54189810	*. . . . . *
03840	2D594538	980A2CA0	A8714518	2C20A819	2C59A80F	1C022703	DF822C0C	4528A837	*. . . . . *
03860	33089890	24354E1D	36388858	4E2C3638	887CA82A	3308987C	27453718	77018600	*. . . . . *
03880	7090A81A	A838A82E	A814A838	A860A80E	A80CA80A	A808A806	2127E1C1	100D2539	*. . . . . A . . . . . *
038A0	D44025B9	2841E811	24354808	292F0148	29AE4344	A98B2539	D50E25B9	A8562539	*M . . . . Y . . . . . N . . . . . *
038C0	D51CA80B	2127E9B4	D10C21A7	150125A5	20B38000	28C72539	D52025B9	2800E81A	*N . . . . Z . J . . . . . G . . N . . Y . *
038E0	D8980816	2503DC84	24354809	A8432539	D508A83B	2539D410	A85BA910	2C41EC39	*Q . . . . N . . . . . N . . . . . M . . . . *
03900	A8652539	D5142F32	37488802	D41025B9	2841E838	46042153	F8AA415C	85674554	*. . . . N . . . . . M . . . . . Y . . . 8 . *
03920	84CA2D2F	45482DAE	2C5CA401	2CDD2539	D40825B9	B1008826	2127E1C1	152D4344	*. . . . . M . . . . . A . . . . . *
03940	25A5B840	283DD080	28BDA833	A85C4604	2C5D8804	A4012CDD	415CC100	98ADB920	*. . . . . A . . . . . *
03960	03004164	2127E1C1	152FA82F	2C5D8806	A4012CDD	A819B3FF	890C4604	A800415C	*. . . . . A . . . . . *
03980	B1008827	A84F4604	A800415C	D1009859	2539E4F7	25B92435	490D4154	2153F882	*. . . . . J . . . . . U7 . . . . . 8 . *
039A0	A86A283D	E07F28BD	A8622127	E1C11533	25A5B920	03C04164	AA932435	49243138	*. . . . . A . . . . . *
039C0	881E2539	3308980C	85082145	31181101	B0378802	858A25B9	2127E1C1	1521A8A3	*. . . . . A . . . . . *
039E0	A931BC00	3D2CA937	808A292F	014829AE	21271501	25A55088	24354931	3138894F	*. . . . . *
03A00	212FD080	1048E0BF	28AEA81D	2539213B	88064344	B8002EC8	25BB2D47	2DBC0139	*. . . . . H . . . . . *
03A20	882212AD	02B920B9	20AD292F	E180C1C0	29AE2941	E1DF29C1	2127E1C1	15034344	*. . . . . A . . . . . A . . . . . *
03A40	25A5B840	02B771C4	A827BC00	3D2C2147	1B002733	7348CB3E	330898DE	364827B3	*. . . . . D . . . . . *

03A60	2836B8B4	27427501	883C5598	559825C2	59038811	29B69101	1178283C	10189812	*.....B.....*
03A80	28BC5F02	75189504	57102FC7	434425BE	B84080FF	A817A88C	28B6253E	511029C7	*.....G.....G*
03AA0	434425BE	B8402C41	EC2A2435	FFDA2103	E8364D19	2DC72C3C	44189814	2D594538	*.....Y...G.....*
03AC0	980E2CA0	20B72539	E4FE4344	25B9B840	2C59A813	28B6212F	D0C01048	28AE2127	*.....U.....*
03AE0	E1C11119	21A5ABE8	212FD0C0	104828AE	2127E1C1	150B25A5	D13C21A7	2539D590	*.A...Y.....A...J...N.*
03B00	25B98400	2CC7A853	2801D882	A85D254A	25C22F40	51030118	712888B9	29B67518	*.....G...Q.....B.....*
03B20	9504A889	33089804	E37FA80E	24354B1A	CF024B18	3648C780	ABAF2435	21273508	*.....T.....G.....*
03B40	8400E5FE	5090A824	A842A870	A88AA8DE	A900A902	A904A906	A908A90A	A90EA910	*..V.....*
03B60	A926A92A	A936A938	A93AA8D4	CF43E1C1	151525A5	212FD0C0	104828AE	4B2B3648	*.....M..A.....*
03B80	2EB22E41	EE044344	AC5FA92D	CF632C41	EC264B1C	E1C11519	25A5D11A	21A7212F	*.....A.....J.....*
03BA0	D0C01048	28AE2841	D020E0EF	28C18598	2DB92E41	EE2DAA8E	837CA829	83FFD201	*.....A.....K.*
03BC0	E1C11539	2841D88C	212FD0C0	104828AE	25A5A975	A504A811	4B212503	ECCE2C01	*.A...Q.....*
03BE0	DC4A3648	2EB22E3C	87002FBC	2F369701	77787628	882A2F59	6618982C	67389828	*.....*
03C00	2F586738	98027618	2791E1C1	15352841	D8924344	25A5212F	D0C01048	28AEB840	*.....A...Q.....*
03C20	8602A860	A504A817	7608A82D	A9D34B1F	2503EC89	36482EB2	86FF2EBC	2E59A841	*.....L.....*
03C40	4B273480	2EB2D101	21A74E33	2EC74344	AD274B27	A9FB4B2A	A9FF4B29	AA034B23	*.....J.....G.....*
03C60	AA074B31	AA0B4B1A	E77FAA11	4B25AA15	4B22F982	AA1BE1FE	21A72503	ECD33648	*.....X.....9.....L.*
03C80	2EB22E57	8701A881	4B18D780	AA334B20	2C01DC0A	36482EB2	8602A819	4B2DAA45	*.....P.....*
03CA0	4B2FAA49	4B30AA4D	24354B00	B3228906	823FFD201	A8064B24	B380880D	2127E1C1	*.....K.....A*
03CC0	15219501	28A5D11C	21A72753	D60127D3	80C0AC29	BC003D2C	83FFD201	21111028	*.....J...O...L.....K.....*
03CE0	98088806	43442191	B8402127	E1C1D138	15012841	D89A25A5	20912836	B882AA9D	*.....AJ...Q.....*
03D00	28B62C3C	8802AA6F	90010478	2CBCAA77	A504A81F	BC003D2C	E2FE2127	150125A5	*.....S.....*
03D20	212FE0BF	D0801048	28AE5088	2841E0EF	28C124A5	40882127	C1041501	25A52B32	*.....A...A.....*
03D40	2C41EC04	4344AE1D	2D475348	2836B002	8802AA5F	800128B6	8698A911	2841E804	*.....5.....Y.*
03D60	801728C7	A84D2836	B8A02539	D59825B9	21271509	25A5C10A	21A72841	D02028C1	*..G.....N...A.....A*
03D80	212FD0C0	104828AE	A8A02435	4C1D3438	88064344	28B6B840	83FFD201	A80D2836	*.....K.....*
03DA0	B89A2841	E8282127	E1C11519	25A5212F	D0C01048	28AE8700	2FB6A86A	25472E41	*...Y...A.....*
03DC0	EF3C5B00	9802AB31	CB052733	AA952542	55015598	55988833	2127F988	D10121A7	*.....9.J.....*
03DE0	8001A829	E1FE21A7	25C25903	882129B6	59021518	95045110	29C725BE	A8615B00	*.....B.....G.....*
03E00	981E28B6	24354F1D	36388802	AB752127	E1C1D11C	21A71501	25A577A8	27B3AB87	*.....AJ.....*
03E20	CB212733	AAED2841	E84C415C	E8E62951	2E53DEB8	4154E2FE	800028C7	2841D882	*.....Y...YW.....S...G...Q.*
03E40	D8262753	FE1E2742	253E75A8	77F877F8	2791A504	0F077528	88027518	2D8D20C2	*Q.....8.8.....B*
03E60	85042DC0	2841D890	4344AF41	B37C883D	E1F0D10D	A843A858	E0CF28C1	2127C11A	*.....Q.....0J.....A..A.*
03E80	21A7F1C1	153325A5	4344212F	D0C01048	28AEAF69	2127C11A	21A71501	25A52841	*..A.....A.....*
03EAC	D8202435	4800881C	08162503	DC824809	B9024808	292F0148	29AE8701	43442FB6	*Q.....Z.....*
03EC0	B840ACB9	2800E804	D882A825	80C4A81D	2841D8C0	415CE8C5	28368826	B001880C	*...Y.Q...D...Q...YE.....*
03EE0	2841E0DF	28C18000	28B9ACFD	21421101	11981198	8802A819	808828C7	2901F997	*.....A.....G...9.*
03F00	A82320C2	800428C0	86012F48	27B72739	E6FE27B9	A8EDBC00	3F2C2435	1090A81E	*...B.....W.....*
03F20	A830A85A	A860A838	A83CA87C	31081118	13082145	31181101	03080048	4088482E	*.....*
03F40	880C0338	8848482F	88040338	8840B800	37262539	8588B920	4D9621CD	20D5A80A	*.....N.....*
03F60	25398516	A8042539	851C2840	8802A802	950125B9	2127E1C1	21A7B800	3914482D	*.....A.....*
03F80	C80CB800	3726482D	C884B800	37262127	E1C1D10E	21A71501	25A5B920	03C04164	*H.....H.....AJ.....*
03FA0	2139D008	21B9A85B	B80038B2	2539D508	4809292F	014829AE	A8C5BC00	3D2C2435	*.....N.....N.....*
03FC0	E1C1D10C	21A71501	25A50816	2503DC82	253E28B6	511025BE	D2EE4344	29C7B840	*.AJ.....E.....*
03FE0	21471B00	33089818	2836B884	B8003A64	A80CA816	A80CA80E	A828A812	A820B800	*.....K...G.*
04000	24352127	E37F3508	4448E5FE	5090A88C	3BBBC800	3C2EB800	3C40B800	3B8E83FF	*.....T...V.....*
04020	A85B2C01	DC3883FF	D2012539	E4FED598	25B92435	2127E1C1	151925A5	2841D020	*.....K...U.N...A.....*
04040	28C1B3FF	8802A871	50882836	B8942127	E1C11519	25A57748	2FB6B800	3E264B2C	*.A.....A.....*
04060	A8392547	5B00980E	28B6253E	511029C7	434425BE	B840A899	B8003914	83FFD201	*.....G.....K.*
04080	B8003B94	50000000	00000000	D6202000	C3E7C2E2	E2C3E240	BC00434E	21012087	*.....O...CXBSSCS.....*
040A0	209B2753	F606987C	2A802085	2089208B	209373E4	2C3DCC34	E40F2CBD	4604FFC6	*...6.....U...U...F*

040F0	253B99F6	253999AC	CFBEF9EC	F1308A3C	E10FFF9A	FEDC2DCF	45111518	11C84154	*...6.....9.1.....H..*
04100	82FE4344	20C273F4	23035001	A8E8FF02	A81D2503	CD084511	151811C8	A81BBD20	*.....B.4.....Y.....H....*
04120	1D9625A5	A82FA860	22232181	253B8808	B90043A0	20BBA83A	25399834	221FA857	*.....9.....*
04140	8103A804	FE90811D	BE2005A8	8000B800	97B0F95D	A861A90C	2DCFE10F	BD0040FA	*.....M.....U.....H..*
04160	432C4B0E	432C4FA2	456A43D4	4CFA432C	20B9BB20	002073E4	21314104	11C84144	*.....*
04180	221F25BB	4604A952	BE2005A8	BC00249A	BB200020	24352631	253B9806	25399816	*.....*
041A0	A8BBB900	43A02139	880AB1E0	98061588	2101A806	2101B5E0	980ECF82	A9462223	*.....*
041C0	20BB20B9	221FA93C	55C820BB	20B9A8E9	2101E10F	2435BB20	002073E4	253B880C	*.....H.....Z.....U....*
041E0	B90043A0	2101E10F	73E420BB	20B9E6F9	2ED24604	A8FFCFAC	F9922802	C80E2ACF	*.....U.....W9.K.....9..H..*
04200	D6062ED2	213B891E	B1E1980E	E40F2CBD	BD20424C	25CD253B	8898B900	43A020BB	*O..K.....U.....*
04220	11C8204D	E40F2CBD	2123153B	10BB1105	2301B383	88C2B5E0	980A2587	21858320	*.H..U.....B.....*
04240	73F4A8F4	2A02CA02	A811A915	2753E6F9	2ED2BB20	0020B5E0	999FB920	5E8A21CD	*.4.4.....W9.K.....*
04260	25BBA9A9	2A802A88	2089208B	73E42C3D	CC10213B	8806E900	43A073E4	2303B800	*.....U.....U....*
04280	59E0253B	9811BD00	432425BB	BB200020	A819858A	B183882A	F51E9868	2A02CA20	*.....5.....*
042A0	EF10FF8E	B92003C0	41642127	E1C11133	21A580C8	292F0148	29AED606	2ED2A866	*.....A.....H.....O..K..*
042C0	A8B7B800	4B0EDF0C	21012223	21812F53	213B9806	221F2F53	A840B900	43A02101	*.....*
042E0	73E44604	B1838810	B5E09802	A8162139	8812B59C	88142101	20BB2539	8A17B5E0	*.U.....*
04300	9871A871	20B92A02	CA19D606	2ED2B58C	880EE4FB	55888808	CFD573F4	B8005E58	*.....O..K..U.....N.4....*
04320	20B9A833	25CD8330	73F4B840	852075F4	20858582	84062587	BE2005A8	22192298	*.....4.....4.....*
04340	2298B920	439C618A	8100B800	981E2227	BB204360	03F573C4	01378802	73C4B840	*.....5.D.....D..*
04360	122C2631	630123C8	9812BB20	00207374	BC205E20	04F52435	2753104C	31F88817	*.....H.....5.....8..*
04380	23C8BC20	17C543C8	8821BC20	41401404	BB200020	73740137	880273C4	B8408320	*.H..E.H.....D....*
043A0	73F40537	88265488	25C8981C	73E4242D	04B7A806	73E4252D	45AD9802	04B973F4	*.4.....H..U.....U.....4*
043C0	A80A25B8	88135488	452D980B	20AD253B	21851088	2841E802	A8AF8006	28D2B920	*.....A.....Y.....K..*
043E0	444421CD	2127E1C1	EB1A250F	55985598	57019810	5503DB84	8400A804	54182D0C	*.....J.....W..K.....J..A....*
04400	54488818	D12A21A7	2753E6EF	2ED2DA02	A8062941	D12029C1	B800584A	DA261731	*X.....O.....K..*
04420	E7FE27A5	4F177158	21A78104	29C0490D	41542753	2948A101	800121B7	D6202ED2	*.H..U.....A.....*
04440	80C8AF00	E4FEB581	9808B590	8820B800	5E8A2127	1401EF04	E1C11403	24A5B530	*.....2J.....*
04460	881A8598	DA088501	28408802	85808100	CC062984	B80064F2	D180A80B	8511A813	*.....O.....*
04480	BC003D2C	07F09820	475CCE12	212FD080	104828AE	43448520	2DB9B800	2FB4B3FF	*.....T.....S.....*
044A0	880FE3FF	981BA815	2753DEB0	818C282F	104828AE	2B47E2FE	43442137	B89A2142	*.....B.....W..K..*
044C0	15015598	5598884C	25C25103	95040518	10088817	B8003222	B8003220	E6EF2ED2	*K.....2.....*
044E0	D201BD20	44EC4344	25A5B840	4344A800	B8402951	415485F2	2DB92742	253E75A8	*.....8.8.....8.8.....A*
04500	A5042D8D	77F877F8	2791274A	77F877F8	278FB840	2703EE38	475CEE2B	2127E1C1	*.....X.....H.....B*
04520	1731E7FE	27A52435	4F177158	21A781C8	282F1048	28AE8500	2DB92E41	DE0E20C2	*.....O..K..A.....*
04540	20B98104	29C08520	2DB9B840	B8002E22	2753D611	2ED2292F	E180C1C0	29AF8590	*.....G.....M..A.....*
04560	2DB98400	2CC7B800	2E762C41	EC02AA45	D4202CC1	85802DB9	8112ABAB	BC00434E	*.....8.....6.....*
04580	119C8100	1194B01B	98048102	A814BB20	45A60318	0318F884	15DC3001	F6068809	*.....B.S.Y.O*
045A0	8104119A	AA7D458A	458A458A	458A4636	460446D0	462245DC	46C245E2	46E845F0	*.H.Y.....4...0...8.....R*
045C0	46C845E8	46DA45FA	458A46F4	458A46F0	458A46F8	458A4702	458A4708	EF552DD9	*.O...Q.....L.QV.....*
045E0	A8F0EF5B	2DD8A8EA	85FBF63	5768A806	8404EF6B	47582FD3	A8D8E5FF	88759501	*.H...U.....S.....*
04600	2DC8A8CE	2C50E474	4558BF20	788C2331	E2032718	27182718	47187701	88B42DD0	*.....M.....X..*
04620	A8B0BF20	717C5598	55985598	55987598	BC00463C	A8AD4D00	15D4A896	5707E7FC	*.....S.....*
04640	B920788C	6388E203	22182218	22182118	53018604	160163B0	88089102	9701BE8D	*.....U.....H.....4...E..F...*
04660	40888120	71E42631	460411C8	41542FD0	812071F4	570527C5	57072EC6	570B2ECE	*.H..Q.R.....O...LX0.....0*
04680	2FC8570D	2ED82FD9	57097108	2853E10F	E0F01058	28D3E7F0	550325B5	590CE1F0	*.....J.....*
046A0	2851E00F	105828D1	59174588	95021758	27A77101	21A520B9	293DE10F	29BD2631	*.....N.....N..A.....v7*
046C0	50882D50	D5402DD0	2D41D508	2D21A802	2DCE178C	97021784	ABB52DCE	2D41E5F7	*.A.N.....V.....H.H.....*
046E0	2DC12D50	D520A802	2D50E5BF	2DD0A81F	22C855C8	B8007B00	178C9702	1784B800	*.....U..H.....K.S.....*
04700	7F0E5821	E0BFA804	5821D040	58A1A83F	B90043A0	293629B7	480A292F	014829AE	*.....N.....4.....AJ....*
04720	BD200020	75E44604	33C84354	B9200003	4164A800	434CD2EC	E2FE83FF	4344490C	
04740	415420D5	B92047AA	21CDB920	475421A5	75F4AA14	810329B6	2127E1C1	D11021A7	

04760	150125A5	83004344	810A4154	AD4A2940	8894EF04	2901D902	A88C2139	F1209871	*.....R.....1...*
04780	48008802	A877283D	C84C20D5	B92047A4	21CDDF8C	80C4292F	014829AE	73F4A9C8	*.....H..N.....D.....4.H*
047A0	80CAA80F	B5E09899	AB062B53	DB908320	73E44604	A800414C	F81A73FA	AAE0B920	*.....U.....8..4...*
047C0	47CE21CD	80C2292F	014829AE	B840B920	47AEA813	A91CE07F	28BDB920	47E221CD	*.....B.....S...*
047E0	A9868308	B8005E8E	25392101	B18D8830	C1289812	4107BB20	6E4831C8	881C6108	*.....A.....H...*
04800	E106C106	88068000	2880A978	F5609806	29408802	A89EEF05	A8158301	2B94A94F	*..A.....5.....*
04820	B5E0981F	A8CCBC00	434E73E4	4604119C	81001194	F606880E	2880C81C	FF8CD88C	*.....U.....6.....H...Q.*
04840	E80CC8DD	D828C808	D810AD27	A8DDA8E3	2A3DE2CF	2ABDAD33	A85A2880	D6062ED2	*Y.H.Q.H.Q.....T..S.....O..K*
04860	2841D040	28C1B920	61DA21CD	A8FA2501	DBCBD20	002075E4	253B880C	23398828	*...A.....U.....*
04880	D24023BB	20B9A806	2539D440	25B94604	A800434C	E2FD4344	BD200020	75F4BC00	*K.....M.....S.....4...*
048A0	65768104	29C0A8C0	D44025BB	A8212C40	8841A855	FF82A826	2801E0FD	C030981E	*.....M.....*
048C0	253B9814	2539D404	25B9FF02	A89A80C8	292F0148	29AEA890	D40425BB	A88AEF06	*.....M.....H.....M.....*
048E0	FF842841	C8B02841	E0BF28C1	FE942836	28B7253B	882CB900	439E73E4	460420BB	*...H.....A.....U.....*
04900	A822B920	643C254D	15C8881B	283DC823	E6FE2ED2	A829E0BF	28C1119C	D1081194	*.....H...H.W..K...A..J...*
04920	A8352539	D40425B9	283DC85E	E04FCE84	CF02E0BF	28BD20D5	2901FE84	F130894A	*.....M.....H.....N...1...*
04940	B9204A9E	21CD2840	880680C2	2A00CA82	80C8292F	014829AE	415C33C8	FE7AFEA8	*.....B.....H.....H...*
04960	E824414C	80004144	174CBB20	482A73C8	9E4D13AC	332723C8	9E55D701	1744178C	*Y.....H.....H..P.....*
04980	97021784	AE61A870	A884FE9A	F6068865	E04F28BD	B9204AB0	21CD20D5	80C8292F	*.....6.....N.H...*
049A0	014829AE	A83F6108	E106E104	8883E6FE	2ED2E0CF	A889DE16	BC006566	209B2093	*.....W..K.....*
049C0	243B9814	71E44604	A800415C	A80CF560	8808E6FB	2ED2A802	E8A5FE9A	E82AEF14	*.....U.....5...W..K.....Y...*
049E0	2127E1C1	1133BF20	03C04764	21A5414C	E0FDA88F	A895A8E2	2342213E	31A8A104	*..A.....S.....*
04A00	298D33F8	33F82391	434CE2FD	43442127	EF22E1C1	111921A5	2841D020	28C1A82E	*..8.8...S...A...A...*
04A20	2EC0283D	D08028BD	E6F82ED2	B9204A52	21CDAF0F	E1DF21A7	110121A5	B9200026	*.....W8.K.....*
04A40	419821BE	28B628B7	2133C0FF	21B3FEB1	A8EB2127	D9A62A3D	E27F2ABD	CD18F606	*.....R...S...6...*
04A60	880AB920	61F021CD	B800424C	BD004E14	BD2061F0	AF53E4FB	25BBA81F	832073E4	*.....0.....O..U.....U*
04A80	5388BD00	4E303588	A835E902	A927158C	95021584	852075FA	2F49858C	AAF82127	*.....Z.....4...8...*
04AA0	D9A02A3D	CA4F8306	63688841	B5E09804	B8005E8A	858CE4FB	01F89814	283728B6	*R.....U..8...*
04AC0	A8138320	73E45388	BD004E30	3588A82F	D30820C2	810429C0	A82BBD20	643C234D	*.....U.....L..B...*
04AE0	53B08806	E6FE2ED2	A90FE6F8	2ED2414C	80004144	283DD080	28BD2840	8804B800	*...W..K..W8.K.....*
04B00	4326BC00	65768004	28C0B800	432620B9	86062ED2	20B3EF4C	CFB4BD20	4B7E25CD	*.....K.....*
04B20	81F82F49	CF02819C	29B98320	73E44604	85FE4544	850F4554	2127E1C1	21A71527	*.8.....U.....A...*
04B40	082125A5	292F0148	29AEB800	4326DF37	22232631	832073E4	460455C8	4554221F	*.....U.....H...*
04B60	2631A84B	2F49CF02	A8512C41	EC55BD20	4B1A25CD	4588951A	25BEB800	5574283D	*.....*
04B80	E00F28BD	25BB2832	C0898806	BC006566	2435CEC4	C59C9838	2901E960	C59C8600	*.....DE...Z.E...*
04BA0	BC204C04	2ED224CD	CF82A820	DF1023D9	22232631	2ED22753	20BB20D5	A8A58600	*.....K.....R...K...N...*
04BC0	2ED2221F	26312ED2	27532359	B8006348	D4068306	6368A83D	2D32A812	D98E2103	*.K.....K.....M.....R...*
04BE0	F1108808	210F1198	119821CA	25BB8406	F606880C	6308E306	CFDBA85F	20BBA912	*1.....6...T...*
04C00	BD004324	F6069804	25BBB840	2901F130	98372A41	EA0CB59C	8808A903	262360BB	*.....6.....1.....*
04C20	A802CF89	26318000	28CF8606	2ED2E106	1090A806	A91DA8DA	A800B800	432C05FB	*.....K.....*
04C40	980C22F8	2298859C	2DB94344	A86A2539	2F337458	2D322435	4F0A2E2F	76482EAE	*..8.....*
04C60	2753FF8C	FE9A25B9	25275501	25A55088	BD2018E6	25A525D7	86808718	27B95088	*.....W..P.....*
04C80	85902E3D	E67F2EBD	2E2ED640	2EAEA82B	D2024344	27537108	2F492539	DDA0C99A	*...W.....O.....*
04CA0	830285F4	25B981C0	282F1048	CF06212F	D0801048	435428AE	B840D91D	A816DF94	*..4.....R.....*
04CC0	2D41ED10	2D51E50F	B50D9808	CF06212F	2ED2DE98	55C84554	55C9292F	E180C1C0	*.....V.....F..K...H...H...A.*
04CE0	29AE4564	859E25B9	B8002E22	4554BD20	00034564	84F22CB9	B840CB10	85FFA820	*.....2.....*
04D00	28CF290C	299CE677	2ED2AADD	2841E815	AA05E6DF	2ED22A41	E2082AC1	PB1F85E8	*.....W..K...Y..W..K..S..A...Y*
04D20	2DB9BB20	4D5023CD	D6062ED2	832073E4	46042D50	2841E810	45648501	08224554	*.....O..K...U.....Y.....*
04D40	2527E5C1	5523AA07	21170568	1558A819	74FF9842	B59E8806	B5FF983A	85E88120	*..VA.....4.....Y...*
04D60	71E44604	2127F304	98F24F17	715821A7	4F0DC16	E1C11103	21A54754	812071F4	*.U...3..2.....A.....4*
04D80	FB068300	B8006262	AA86CF82	A840C701	110121A5	A81D2DB2	490DC90C	D640F606	*.....G.....I.O.6.*
04DA0	8802D606	2ED2AA8F	F7018811	F6208815	F7408819	E6DF2ED2	DF062223	2ED22DB2	*..O..K..7..6..7..W..K...K...*
04DC0	221F2ED2	2DB22753	263120D5	A833E1C1	D12021A7	110121A5	2753DE22	CF8A2587	*..K.....N..AJ.....*

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04DE0 BD004E18 2507A867 D6202ED2 222320BB 26312ED2 2F53839D 2B818320 A8E1E6DF
04E0C 2ED2DF02 A829221F 26314604 85F425B9 8502A8D9 24352753 812071E4 460411C8
04E20 41544A0D CA2C4164 80EE4144 490D4154 2127E1C1 4F177158 21A72F53 EF0EE1C1
04E40 110321A5 20B98120 71F45088 C1011101 A811CAAFF 2A49EAB3 9080A837 2435E6F9
04E60 F3089870 D6028304 2BC0BB20 4F6823CD 20C28302 820123B7 4B173158 21A71501
04E80 25A54B0D EF124809 4354292F 014829AE 812071F4 2ED2B840 E3FE4808 A817BC00
04EAC 60D22435 B5E09804 B8005E94 EF165108 C1289806 D4009802 D518F51E 9802D406
04EC0 B80064F2 F5E0886E CD02A802 A85E490F BC006468 BB204E9E D60623CD 83042BC0
04EE0 25162914 EF24BB20 01FF9101 10082948 21B728BC 2127C11A 21A7E1C1 113921A5
04F00 511029C7 25BEB800 558A8812 83022BB7 25BED650 BD2000D3 25C2B800 55748102
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04F60 B80064F2 D406A80B BC0060D2 24355108 E11E882A B1068816 B1048806 EF0CB800
04F80 64F2BD00 65AABC00 4E148440 A811D516 283DD050 28BDD640 2ED2B800 64F2D406
04FAC A827EF22 2814BB20 01FF2901 D9102527 FD0C4C00 B4228806 4B1D8200 E6EFBD20
04FC0 4FCAB800 5B4AB800 432C2901 D9082127 E1C1D106 21A7851C B8006262 BC0053D8
04FE0 EC00463C AC742127 E1C121A7 2753EE06 D6082ED2 AAD9AAFD 8000282C 28CF28B2
05000 2753E606 2ED2280C 289C2631 B8004B1A B92071CC 55C82D1C 8AC2A501 51181D00
05020 55185090 A808A806 A94CA9AA A8B2BD20 504025CD BD20FFF9 25D52753 B8005574
05040 20C2BF20 509027CD 80C8BF20 71CC2D1C A5015718 7D00B501 88087D01 B5018802
05060 4808292F 014829AE 2127E1C1 152525A5 D10C21A7 86018702 27B78604 EFC020D5
05080 872077E4 46048002 4144A800 77F4B840 B5E09802 AB5CE4DF 4708E7BF D700982A
050AC CCB25708 E71EB708 8AB4D700 981C2F40 88BBCE16 B92071CC 2F1C7118 1900B101
050C0 8802A8E9 BC0053D8 A8EFBF00 5404BC20 5040AB70 2E32FE82 A811DE13 DE95AA90
050E0 BD2050F2 25CDBD20 FF9825D5 2753B800 5574B920 515821CA 81FF29BC B920511E
05100 21CDB920 FF9821D5 800128C0 2841D020 28C12127 243533C8 2753B800 58A620C2
05120 BF20512A 27CD80C8 A8C9B5E0 9802AAC2 D4009818 5708E71E B7088A3A B7148A48
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051AC BF2051A6 A961B5E0 9802AA46 D400981C 5708E71E B70889E2 B71489F0 B70E8808
051C0 D7009808 2F4089D1 CE02A9F1 BF005404 BC205176 AA6E8110 29CBB920 0000219B
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05240 9102219B A867BF00 5404BC20 5250A9F4 801028CB 20C2211B A87B284B B88DAA69
05260 2142880A 1F05B761 8808B788 88AC2631 30881F06 B74F889E B77F8802 A8114488
05280 8A8B1F07 B70D8822 B715881E 1E087638 8802A827 B6F0982B B6FA9802 A8311E09
052AC B60D8816 B6158812 A83D0F07 2E36A793 67388802 A8494788 A8140D07 2C36A505
052C0 45388802 A8598600 E70F7718 47987501 8988258F 26318700 2F9CAAFF 209BBF00
052E0 541E8100 29C129CF 2753E677 2ED22435 4800288C E80C2631 8306BD20 009EB800
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053AC 0000BD20 0000BB00 5260A9E1 BC200000 BE200000 BD200000 BB005260 A9F3BC20
053C0 0000BE20 000055C8 231B3B00 2B9DDB00 52608300 2B9DA993 BB2071CC 291C1318
053E0 9101299C 11C83900 B1FF8BF5 BD20717C 4088BF00 541EBB20 00062753 20CA2631
05400 B8005E94 2553CC08 D4802CD2 84002CCF 2C4F2435 4D0F4538 8C239401 2CCF2542
05420 881ABE20 05A8618E B9205436 618A1582 8100B800 95600000 000020C2 85012DC0
05440 26317088 B9205450 21CA4188 AB4F0000 00000105 40360636 0637209B BF00541E

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*.....O..K.....K.....W.*
*.K.....4.....R.....U..H*
*.....A.....A*
*.....4..A.....W9*
*3...O.....B.....*
*.....4..K..T.....*
*.K.....A..M..N.5..M.*
*...25.....O.....*
*.....A.....A.....*
*...G.....O...L.B.....*
*.....O...4...5...4...4.....*
*.....F.*
*...2M.....K.....*
*.2.....N.....O..K...2M.*
*.....R.....W.....*
*.....R...AJ.....Q*
*.....A.....O..K.R...A.....*
*.W.K.....H..B.....*
*.....N.....*
*.B.....H.....*
*.....A...J.....N*
*...U.....4...U..X.P...*
*...X...P.....*
*.Z...Q.....*
*...2.....N.....*
*.....N.....A.....H.....B*
*.....H.I.....BM...X.....*
*.P.....*
*.....B.....*
*...M..A.....H.H.....*
*.....M.....X...S...O...*
*.P....J...1.....*
*.....O..H.....N.....M.*
*.A.....H.....N.....K*
*.M....X.....P.....*
*.....4...B.....*
*.....O.....*
*.....*
*.....X.....*
*.....A...W..K...Y.....*
*.....6.....M.*
*.....O..L*
*.....R..X.....9123576840.*
*.....W..K.....*
*.....*
*.....3..*
*.....H.....*
*.....H.....5.....*
*.....M..K.....*
*.....B.....*
*.....*

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05460	810029C1	29CF299C	2753E677	2ED2208F	BD2000E0	BB200006	2631B800	62602435	*...A.....W.K.....*
05480	48283038	8824481D	3038880C	2BB22539	D44025B9	B8003914	28B24809	292F0148	*.....M.....*
054A0	29AE2127	150125A5	5088B800	38B6B800	02005000	00000000	00000000	D6202000	*.....O.....*
054C0	C3E7C5C3	D4C4C340	293DD150	29BDA810	EF04CE24	DEA42920	117829DB	810029DA	*CXECMDC..J.....*
054E0	20C22941	E16F29C1	8626DB02	D610DBB8	294821B7	290CA83E	AB02BD00	65AAB920	*.B.....A....O.....*
05500	41D021CD	B920FF98	21D52127	E1C1D110	21A71501	25A58101	29B62941	D12029C1	*.....N...AJ.....J..A*
05520	E6EF33C8	4B1DA862	250F5598	559825CA	25C25103	01189104	29C0EF0E	A810E2BF	*W..H.....B.....S..*
05540	2AC111C8	2303B800	6C522A41	CA912248	BD206C52	25CD4588	951BB920	FF9825BE	*.A.H.....*.....*
05560	21D52901	D982DB8A	2948A808	82EF2856	A8068101	285633C0	21B72127	4D0E4B12	*.N.R.....*.....*
05580	E1C15158	21A71501	25A5480A	292F0148	29AE8120	71E44604	BD200003	45644D0C	*.A.....U.....*
055A0	D2EE4344	A8004554	2ED271F4	B8408520	75E44604	11A84154	A80075F4	30802D3D	*K.....K.4...U.....4...*
055C0	D5502DBD	F06980A	EF02E6EF	FBA6FB14	EB9CB920	633A21CD	B9209934	21D52941	*N...6.....W.....N..*
055E0	E16FA814	E6BFD680	EB82A81B	EF02E67F	D640A823	C620A82B	29C1E6F9	D6022901	*....W.O.....W.O..F...AW90..*
05600	D988DBEA	290C9104	29C02948	EB7A2248	EF30CE28	4B2C2D20	55782DDB	85002DDA	*R.....*.....*
05620	BD200020	25B921B7	D2EE2127	C11A21A7	E1C11519	25A55548	2DB2A8B3	CEAB4B28	*.....K...A...A.....*
05640	A82D2D3D	D5502DBD	4588BB20	6DE6244D	34B08812	CE0EDE08	952025BE	2435A8ED	*.....N.....W.....*
05660	9522A80B	CE849528	A8119524	A815B920	010121B7	250F5598	559825CA	25C25503	*.....B.....*
05680	45189504	2DC0A87D	251625BE	BD2000D3	25C22914	2248EF0C	4C00B422	8933B424	*.....L.B.....*
056A0	8937A895	A933293D	D15029BD	8102CEC4	CE428001	21B7BD20	572225CD	B920FF06	*.....J.....D.....*
056C0	21D58626	85042DC0	2127E1C0	D10221A7	150125A5	2849C80A	292FE180	C1C029AE	*.N.....J.....H....A..*
056E0	A8084809	292F0148	29AE8120	71E44D0D	4604A955	BD20FF98	25D5BD20	41D025CD	*.....U.....N.....*
05700	86068504	2DC04588	951B25BE	481321B7	2127E1C0	4D0E5158	21A71501	25A54B12	*.....*.....*
05720	A999E65F	D648208B	84002C88	2CCFBD00	65AAA963	CE86CE04	8606A81A	BD205756	*..W.O.....*.....*
05740	25CDBD20	FF0025D5	86064588	951B2B41	D3202BC1	A9F9BD20	57EE25CD	85042DC0	*.....N.....L.A.9.....*
05760	8606BD00	65AABD20	FF1C25D5	81024588	952725BE	AA03EF04	CE16DE92	2C41CC88	*.....N.....*.....*
05780	BD205792	8606AA35	E4BF2CC1	A804AA97	A86ABD00	65AABD20	57EEB920	FF1C21D5	*.....U..A.....N*
057A0	8606252C	2522EF3C	20B321D5	210F1198	11981803	90010078	29201178	10189820	*.....N.....*.....*
057C0	28BC2127	C11A21A7	110121A5	481428B6	51102846	1B005110	29C725BE	8200AA4F	*....A.....G.....*
057E0	80FFA825	810429C0	25BE1148	AA7BBD00	65AAC608	2ED28112	B80041D2	E67FD606	*.....F..K....KW.O.*
05800	2ED280C8	292F0148	29AEB920	41D021CD	20D5B840	293DD160	29BDF606	980EEF02	*.K.H.....N...J...6....*
05820	E6EFD640	CE02A802	C6A0FB8A	E6F9D604	2941E16F	A80C6608	A80F29C1	BD206404	*W.O....F...W90.....F...A...*
05840	25CDBD20	FF1C25D5	D6C0EB04	E67FA806	B92000D3	21C22ED2	250F5598	55988808	*.....NO...W.....L.B.K.....*
05860	25CADB8C	5802A80A	BD2000D2	25C2A811	280C28C0	2139D001	21B9EF3E	004828B2	*.....K.B.....*.....*
05880	210F1198	11988802	18039001	00782920	11781018	982028BC	2127F920	2A41EA1C	*.....9.....*.....*
058A0	4A00B222	880A33A8	4B1DE1C1	C11CA812	BB2001FF	A80D80FF	A825A85A	BB2001FF	*.....AA.....*.....*
058C0	C11A21A7	E1C11539	25A52C3D	E43F2CBD	2503FD02	E6F7ED20	254A25C2	2F405103	*A...A.....U.....W7....B...*
058E0	01187128	1158980A	810187DF	2FC729B6	AB697518	9504A808	D6802516	291429BC	*.....G.....O.....*.....*
05900	29B65110	29C725BE	AB818644	BD205BC6	25CD55C8	A8D1293D	D16029BD	2841E80A	*.....G.....F...H.J..J...Y.*
05920	4588FB08	EB8A951D	A80CA80E	9529A806	951C25BE	ABC325BE	ABC725C2	2F405103	*.....C...G.B...*.....*
05940	01187128	75189504	2F3DE73F	2FBD2753	E6F71108	882225BE	2801B09B	8802ABED	*.....X.....W7.....*.....*
05960	29B65110	29C725BE	2127C11A	21A71501	25A533C8	83FFABEF	80012948	21B78104	*....G...A.....H.....*.....*
05980	29C020C2	2139E0FE	21B92127	E1C0D102	21A71501	25A54908	282F1048	28AE8120	*.....B.....J.....*.....*
059A0	71E44D0D	4604AC09	BD206404	2941E16F	29C125CD	8604AA57	EF04DEA0	A8062C41	*.U.....A.....*.....*
059C0	D4402CC1	BD206262	D60625CD	4588951B	25BEB920	FF9821D5	4813AC67	B80054FA	*M..A...O.....N.....*.....*
059E0	28018120	FE08B019	8832B800	432CB025	88B42C41	EC02A80F	B09B8802	A815BD20	*.....*.....*.....*
05A00	444425CD	84002C8C	253B98CE	46042539	475CF60F	88C471F4	B840A86E	71F4EB4C	*.....6..D.4...4...*
05A20	250F5598	559825CA	25C2280C	DB825802	28C00208	51030118	212829BE	95042518	*.....B.....*.....*
05A40	2A41EA2B	5110EF04	81DFA501	29C72127	25BEEF30	150125A5	253B981E	2539D401	*.....G.....M.....*.....*
05A60	25B9BF20	6404BD20	FF1CA854	2753E67F	2ED22516	291429B6	A83B8306	6368D308	*.....W.K.....L..*.....*
05A80	B8006262	C10A21A7	A8372127	D910C10A	21A75110	29C725BE	253B9823	A83D2753	*...A.....R.A.....G.....*
05AA0	C6C02ED2	A8118500	2D8C253B	98202539	CD14F51E	981071F4	BF20633A	BD209934	*F..K.....5...4.....*.....*
05AC0	25D527CD	B84025BB	BD004E14	253BBF20	633A27CD	B9209934	21D520BB	275371F4	*.N... ..N.....4*

05AE0	B8005E44	293DD160	29BDEF06	CE18DE98	A8042C41	CC88BD20	5B0C8606	A935E4BF	*.....J.....U.*
05B00	2CC111C8	A806AB0D	B80054FA	BD0065AA	BD20642C	B920FF1C	21D58606	AB7D293D	*.A.H.....N.....*
05B20	D16029BD	CE86CE04	8606A806	BD205B32	ABF3BD20	642CABDF	CE2A2127	F93C4816	*J.....3.....9...*
05B40	8838BD20	5B6633C8	4B1D25CD	28B6E6F9	D6042127	E1C1D110	21A71501	25A520D5	*.....H.....W90....AJ.....N**
05B60	B800558A	AB6BB598	8802A86E	E4DFD400	98682127	E1C1D106	21A7E6F9	D604BD20	*.....U.M.....AJ.....W90...*
05B80	5BC625CD	55C8AB43	852075E4	4604490D	4154A800	75F4BD20	0098B800	6262BD00	*.F...H.....U.....4.....*
05BA0	5C008200	4B2CCE82	4B28B800	5628CE4D	E6EF4816	9C01BD20	5BC62327	FB02A87B	*.....W.....F.....*
05BC0	BB2001FF	A87DB920	FF9821D5	2801D82A	B9206404	21CDB598	8804B800	5E8AE4DF	*.....N..Q.....U.....*
05BE0	D400980B	851C2127	E1C1D106	21A72801	D804B800	6404B800	6262B920	6262A82D	*M.....AJ.....Q.....*
05C00	2127E1C1	EB5A21A7	FB32EBB6	29201178	29DB8100	29DAB920	633A21CD	B9209934	*..A.....*
05C20	21D5E6F9	D6262801	B0288802	C624DB98	290C9104	29C02948	21B75088	E6BFD680	*.NW90.....F.....W.O.*
05C40	A839E67F	D640A83D	210F1198	119821CA	21C21103	01189104	29C0B920	0101A829	*.W.O.....B.....*
05C60	E6F9D604	D10621A7	BD205C82	25CDBD20	FF9825D5	BD2000D2	25CABD20	00D325C2	*W90.J.....N...K.....L.B**
05C80	AC0FBD00	5C082ED2	A884CE18	2127F912	BD205B38	25CDBD20	FF9825D5	D606B800	*.....K.....9.....NO...*
05CA0	5574A92B	ACABCE05	A931CE09	DE86BD20	5CB8A821	B80054FA	2127E1C1	21A7BD00	*.....A.....*
05CC0	5C082535	9532B800	6C98CE12	DE9BBD20	5CD4A841	4816881E	BD205CE2	A999B800	*.....M.....S.....*
05CE0	57FCB598	8902A90F	E4DFD400	99152127	E1C1D106	21A7E6E9	D604ACC1	CE21DE86	*.....U.M.....AJ...WZO..A...*
05D00	BD205D0A	A873B800	54FABD00	5C000816	DA824809	292F0148	29AE2127	E1C121A7	*.....A.....*
05D20	150125A5	800128B6	800028B2	812071E4	A8004604	82EE4344	B8006242	CE61DEBB	*.....U.....*
05D40	BD205CF6	A8B321A7	110121A5	25BE4813	810221B7	810429C0	4B12480A	292F0148	*..6.....*
05D60	29AE8120	71E44604	BD200003	45644D0C	82EC4344	BD24554A	A80071F4	B840CE24	*.....U.....K.....4...*
05D80	55C825D5	BD0065AA	23032127	E1C121A7	D6042C41	D4202CC1	BD205BC6	25CD2555	*.H.N.....A..O..M..A..F...*
05DA0	B8005846	B80057FC	23032545	5C318802	E3F7BD00	5C002ED2	25455C31	8A1DA8B3	*.....T7.....K.....*
05DC0	BD20001C	B8006262	CE26BD20	5DF44816	28B225CD	2127E1C1	4D035158	21A71501	*.....4.....A.....*
05DE0	25A511C8	21D533C8	4B1D28B3	B8005592	B80057FC	B5988879	B8005E8A	2303BD00	*..H.N.H.....*
05E00	5C002ED2	0816B800	5D145000	00000000	00000000	D6202000	C3E7C5C3	D4C4C940	*..K.....O...CXECMDI*
05E20	BB200020	73E40237	8832212D	98047374	00B901B7	20AD2753	253BFFA6	20BB73F4	*.....U.....4**
05E40	2155880A	F4FF9842	51481068	983C2435	230311C8	2631204D	20BBA81D	737473F4	*..4.....H.....4**
05E60	B8402901	E1FDC130	982F2155	8833BE20	05A873F4	F4FF9872	51481068	9874B5E0	*..A.....4u.....*
05E80	9802A86E	230311C8	204D8306	63682631	B5E098E6	BC0060D2	D3082127	D982E3F7	*.....H.....W...KL...R.T7*
05EA0	E6FE2ED2	283DE00F	28BDFCB0	2801D884	208F2091	209B2093	28408828	FE2A2142	*W..K.....Q.....*
05EC0	8B9E273E	17A811F8	11F82191	A7040907	17288802	17182F8D	20C2AB84	2802F835	*.....8.8.....B...8...*
05EE0	E4FEA839	BC006566	AB76FF02	EC84F0FF	88758306	6368B5E0	9880FF02	A804E6B7	*U.....O.....W...*
05F00	2ED2234A	8810618E	B9205F14	618A8120	B800A49A	20CABC00	249ABC00	60D6B5E0	*.K.....O...*
05F20	984CCF84	E6B7A846	F6488842	DF10E6F7	CE82A83A	D6102ED2	22232ED2	B840E6BF	*.....W...6...W7...O.K...K.W**
05F40	2ED2EE02	A828221F	20B920BB	2ED2234A	8810618E	B9205F60	618A8120	B800A49A	*.K.....K.....*
05F60	20CA2135	1808E0BF	292F0148	29AE8800	2450E501	D58CB800	24264008	8808FC9E	*.....V.N.....*
05F80	BC0060D6	ECACFE94	CD2C2435	82003490	4401B920	001E5168	14904001	A988A8CE	*..O.....*
05FA0	CD8EDD1B	B598881F	B58F8823	B58E8827	A8B1FPC3	858CF51E	8831FF9D	283DE00F	*.....C.5.....*
05FC0	28BDB584	8832B598	8814B58C	8830B594	882CFE08	2810880A	D406AD16	AB56D308	*.....M.....L...*
05FE0	A811240F	2491290C	2703DF86	44984498	4902298D	2753A821	BC006566	AA622840	*.....*
06000	8802AB30	EF42244A	11C82848	A0014301	33983398	88229101	01388804	3488A813	*.....H.....*
06020	408124BE	BC00658E	243E24C2	80000910	149824BE	800128B6	83066368	E6FE2801	*.....B.....W...*
06040	D882AAFO	D406ACAA	24354800	E00FB00A	8802A84F	2801B028	8802A857	DE02A85B	*Q..OM.....*
06060	BC006576	800428C0	8306D880	AAC6EF02	A80A2135	9128243E	41B88838	5108E11E	*.....O..F.....*
06080	B1108804	E6FE2ED2	24114498	44984101	88321198	11982A0D	8802A80A	1A022A8D	*.....W..K.....*
060A0	11F811F8	21912A02	FA0AE4FE	992F2155	8933AA6D	F4FE9939	2155893D	51481068	*.8.8.....U.....4.....*
060C0	8A75A945	41031018	290D8823	10288827	A82D8306	636881A0	CC02E17F	FF8AEC38	*.....*
060E0	FC02E1DF	29844088	C122DC02	E1FDE4DF	EC042984	4088D108	29842859	28C73188	*.....A.....U.....J.....G...*
06100	234A8810	618EB920	6112618A	8120B800	A49A20CA	13884088	EF0AD140	E4F72A3D	*.....J.U7...*
06120	E27F2ABD	A847B590	8ADDCCD30	6108E106	B1068844	B5288838	D4009822	F51E881E	*S.....M...5...*
06140	FE18C606	283DE0DF	D01028BD	B9209934	21D5B920	633A21CD	AB98A9E4	A9A3D406	*..F.....N.....U.M.*



06160	D0102884	D680F6BF	2A3DE27F	2ABDA831	D400983D	D518A841	DE3EB920	002071E4	*...O.W...S...M...N...U*
06180	4604A800	4144A800	71F42940	8802A808	BC006576	810429C0	5108E11E	B1108808	*...4...V...H...U*
061A0	D440E6FE	2ED2AB1F	2539E51E	880881C8	282F1048	28AEB840	EF02A812	24354800	*M W...K...V...H...U*
061C0	E00FB00A	8802A806	2801B028	8855CD08	F56088A1	E6F9D602	A8A7CD10	B51A880C	*...5...W9O...U*
061E0	F6C0880C	B5088802	A806E63F	8308A870	2A3DCAAC	8308E606	9866D500	9802858A	*6...W...W...N...U*
06200	25BB292F	E180C1C0	29AEEF02	B8408120	71E44604	33C8475C	F60F983E	4354A82E	*...A...U...H...6...U*
06220	2435B5E0	9BB625EB	E20F2ABD	EE8A292F	E180C1C0	29AEEA04	FE84B800	424CB800	*...S...A...U...U...U*
06240	4252BD00	65AA8120	71E44604	A800434C	E2EF4344	4B0D4354	A80071F4	B84085FF	*...U...S...4...U*
06260	D4062753	FF82FE82	E6F92ED2	B92061F0	21CD20D5	FF82FE96	800428C0	B5E09802	*M...W9.K...O...N...U*
06280	A80C283D	C888292F	E180C1C0	29AE2904	8802D480	F4FE8804	E4F13458	2587294F	*...H...A...M...4...U1...U*
062A0	2989293C	2985EF1E	2841E0BF	28C1FF82	FEA2BF20	002077E4	4604A800	4744A800	*...A...U...U...U...U*
062C0	77F4B800	43382435	4800B04E	8827B06E	882BA825	B5908804	21398808	B920643C	*.4...M...W.F.W8.K...U*
062E0	21CDA823	5180E11E	B110883A	B58A8824	D4009804	E63FC660	E6F82ED2	800428C0	*...HR...A...X.O...K...U*
06300	B5E09802	A855283D	C8D9292F	E180C1C0	29AEA863	E7BFD680	2ED2BC00	6576209B	*...M.W9...W.F...U...U*
06320	208F2091	A82F213B	8802A841	5180E1E1	21BBA859	D406E6F9	A806FE86	E639C660	*...M.W9...W.F...U...U*
06340	2FD2B920	61F021CD	34802587	23032E01	DE82DB8E	2F40880A	DE02A890	208F2091	*.K...O...U...U...U...U*
06360	A88A274A	77F877F8	278F2742	213E71A8	77F877F8	2791A104	0F077128	88027118	*...8.8...8.8...U...U*
06380	298D264A	8866DB90	280C0907	012833C8	55C82C48	A401A810	61032B40	8815A84C	*...H...H...U...U...U*
063A0	BD2061F0	25CDA81F	1318BC9E	2707E71E	C7109828	2D8D6183	61011198	119821CA	*...0...X.G...U...U...U*
063C0	608166F8	66F82691	A8206701	77987798	880A6183	80007688	0907A835	2F367128	*...8.8...U...U...U...U*
063E0	91016183	7328980E	9301239B	25074380	27532631	A9854380	BC006566	209B2507	*...U...U...U...U...U*
06400	25BBA9A7	FA9EFC9C	210F1198	11988814	86001E83	13013398	33988808	1081BC00	*...U...U...U...U...U*
06420	658E2631	A203CA0A	2753FE84	C608E67F	A9CFE606	81942087	B80041D2	872077E4	*...F.W...W...K...U...U*
06440	213B8812	B130881A	21B92127	E1C0D120	21A71501	25A525BB	77F42A3D	E27F2ABD	*...J...4.S...U...U*
06460	B840818A	A81F294E	2801B019	8858D406	EEEE2802	C8EA284F	90010138	986228CF	*...M...H...U...U...U*
06480	C001980E	29042988	8802D480	E4F93458	258B4188	BC006568	EF02A812	FC82A80E	*...M.U9...U...U...U...U*
064A0	15888320	73E42139	D00121B9	A8061588	832073E4	460411C8	29844154	208773F4	*...U...U...H...4...U...U*
064C0	24352303	50882616	66F866F8	268F2631	2814288C	2803D010	2883A86F	FE69A86F	*...8.8...U...U...U...U*
064E0	293DE10F	29BDEE8A	2801D886	E6F9A9B1	C608264A	294088C8	209B2093	2631AA9D	*...Q.8.8...Q.W9.F...U...U*
06500	FDB62801	D82866F8	66F82693	66986698	25878000	3480FE82	E6F9F560	8806C608	*...Q.8.8...W95...F...U...U*
06520	FE82C620	D4009802	E67F2ED2	A98FDE02	A82D2103	D9B1AA05	2103D802	A83DD440	*...F.M...W.K...R...Q...M...U...U*
06540	A8412139	880A20B9	B1E09804	1580AEBD	11C8BF20	002077E4	4604A800	4154A800	*...H...U...U...U...U...U*
06560	77F42753	AA333188	2A408802	A8368204	2AC02A01	DA04234A	A8142303	DB82A80B	*.4...U...U...U...U...U...U*
06580	234A3688	33013398	33988818	6081BE20	05A86606	618EB920	65A2618A	8120B800	*...U...U...U...U...U...U*
065A0	A49A20C2	26311388	40888120	71E44604	213B980C	415420B9	812071F4	11C85088	*...B...U...4.H...U...U*
065C0	20D5B1E0	980CB920	5E8A21CD	812071F4	B84025CD	20B911C8	4154A811	5108E11E	*.N...4...H...U...U...U*
065E0	B1088826	C280CA50	DA3EDA8A	FEACA80C	CEAA80C0	A850B106	EE8E8838	D2804808	*...B...K...U...U...U...U*
06600	292F0148	29AEA860	A868DA04	DA86A806	8508A802	85182DBB	EE88ABF7	4588952C	*...7...U...U...U...U...U*
06620	A8A0E20F	2ABDABEF	EEBAB10E	883AB10C	8884A850	480BA80E	2ABD8520	75E420B9	*...S...U...U...U...U...U*
06640	DA3CDA8A	4808E27F	292F0148	29AE2ABD	49172327	E3C11358	812071E4	23A73301	*...S...TA...U...U...U...U*
06660	23A5AC23	A828E27F	80C6A825	B1008881	A80D8853	8308BC00	64662A3D	A883EE9D	*...S.F...U...U...U...U...U*
06680	B1008832	D2802ABD	45889527	A834C510	B10C8818	B11C8802	C510B10E	887D8308	*...K...F...E...U...U...U*
066A0	294ED101	BC006468	2A3DA829	294ED101	8348BC00	64684588	951DB920	66CC21CA	*...J...J...U...U...U...U...U*
066C0	21C22127	E1C1D11A	B8005D46	00000401	00000000	2D0066F6	626266F6	676267A2	*.B..AJ...6...6...U...U*
066E0	67C6679C	679C6752	67526752	67626262	679C679C	679CF560	8850E6AF	D6802ED2	*.F...5...W.O...K...U...U*
06700	BC006466	2303DB8C	2D0C9504	29488001	20C2A80C	B9200101	274A7503	45189504	*...U...B...U...U...U...U...U*
06720	2DC021B7	4808292F	014829AE	832073E4	460411A0	4164490D	41542127	73F4E1C0	*...U...4...U...U...U...U...U*
06740	D10221A7	150125A5	B840CCCD	FDCFD580	A853E6AF	D6802ED2	BC006466	E3F7B800	*J...N...W.O...K...T7...U*
06760	55FEF560	8822CD97	2840881B	A8002435	D516CE90	E6BFD680	2ED24915	BC006468	*...5...N...W.O...K...U...U*
06780	B80055FE	D610A815	FD88BC00	64662303	A813D400	98062103	D802AC69	BC006466	*...O...M...M...Q...U...U*
067A0	B840FD89	CE8ADE84	E63FAC79	D406A802	D510E61F	2ED2292F	E180C1C0	29AE293D	*...W...M...N.W...K...A...U...U*
067C0	E18F29BD	AD65F4FF	8D69A831	67F26262	67EC6806	68106826	6832684E	68726872	*...4...2...U...U...U...U...U*

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067E0 68726806 6262688E 688E68C2 F5608808 A8802840 9802D580 294EBC00 68F6283D *.....B5.....N.....6..*
06800 E07F28BD A8DAF560 88222840 88BDA8A3 FDD2292F E180C1C0 29AE293D E18F29BD *.....5.....K.....A.....*
06820 EF3F2ED2 ADC7F4FF 9824FD88 BC006466 A8AE294F 880B280B B080881A 293DE1DF *W..K.G4.....*
06840 29BDBC00 6466293D D12029BD A892D680 E6AF2ED2 FD8E293D E1DF29BD BC006466 *.....J.....O.W..K.....*
06860 B800583C F4FF982D 2A02DA31 D406AB7F AE11B920 993421D5 C6062ED2 B92064F2 *....4.....M.....NF..K...2*
06880 21CD293D E1CFD110 29BDB800 5E58F4FF 9857FD84 D406ABA9 2A02DA61 A80BBD20 *.....J.....4.....M.....*
068A0 68AE25CD 11C84588 951BB800 555AB598 88022AE5 E5E1D512 AE592B3D E3DF2BBD *.....H.....V.N.....T...*
068C0 AE61FDB7 C6082303 EA91CB2F 83042435 4914BC00 68F6283D E07F28BD C608E67F *...F.....6.....F.W..*
068E0 812071E4 45884604 952711A0 4154B920 FF1CB800 555E2A3D CA82AC95 D2802ABD *..U.....K...*
06900 82C2282F 204828AE ACA3692A 6262692A 6966695A 69CC69C4 69AE692A 69E669E6 *..B.....D.....D.....W.W*
06920 62626262 69CC69DA 69C4EC16 2A01B228 88C0F560 881C2435 490FBC00 6468B800 *.....D.....5.....*
06940 41D02840 8802A8C4 BC006576 800428C0 A8BA2940 8821D580 A8252901 B1288802 *...D.....N.....*
06960 A82DF6DF A89C2A01 B228882A FF02A83B 2303CB8E D5868306 2A3DE20F 2ABDB800 *..W.....N.....S.....*
06980 6260D680 20D5BC20 6A1424CD 2435BD00 65AA8B00 56422A40 8802A866 B5078802 *..O..N.....*
069A0 A856D400 9852E65F D6482ED2 ACBDD680 2ED22A3D E20F2ABD FD94B800 6230DCE1 *..M..W.O..K..O..K..S.....*
069C0 D406ACD3 D6802ED2 FD8DA991 D6802ED2 FD95294E BC006468 A8FDD680 2ED2DC8F *M..LO..K...O..K.....O..K..*
069E0 C688D406 ACF52801 B0288806 BC006568 A8B52940 9802A80A BC006576 800428C0 *F.M..5.....*
06A00 83062435 490FD440 BC006468 B5808802 D680A8D7 5108E1E0 C1E089AD 490FBC00 *.....M.....O..P...A.....*
06A20 64685108 E106C106 88A9A8EF 6A4C625E 625E6A82 6A5C625E 625E6A64 625E625E *.....A.....*
06A40 6A80625E 625E625E 6A82625E 2941E824 F4FE9804 FD828580 B8006260 2941E920 *.....Y.4.....Z..*
06A60 B8006260 2841E808 BC006466 B800583C FD90A80D B5208808 29408804 8580AD89 *.....Y.....*
06A80 AD91B800 62606AA6 625E6542 625E6ABE 625E625E 625E6260 625E6AEF 625E625E *.....O.W.....M..*
06AA0 625E625E 625ED680 E6BF2801 B0288806 28408802 8580B800 8302B800 6334D400 *.....O.W.....M..*
06AC0 98082940 8824294F 8820D406 86002142 88042940 88102801 B0288802 E51F2091 *...M.....V...*
06AE0 208FB900 626AB800 6340D518 A823E6EF 2804C88C D680E6BF BC006466 B80055FE *.....N..W..H.O.W.....*
06B00 AE236B22 625E0000 625E6B42 625E625E 62606260 625E6B4E 625E625E 625E6260 *.....*
06B20 625E2841 E818D680 E6BFD400 980AB520 8806D580 B8006334 8302B800 63348304 *...Y.O.W.M.....N.....*
06B40 A8CF2841 E8048302 A88D8304 AE5D2841 E8048302 A8698304 AE696B7A 625E6260 *...Y.....Y.....*
06B60 625E6ABE 625E625E 625E6260 625E625E 6B90625E 625E6B90 625E2840 880ED580 *.....N..*
06B80 2435490F BC006468 B80041D0 B8006334 D4009808 294088C6 294F8802 D406B800 *.....M.....M...*
06BA0 6ACC6B7A 625E625E 625E6ABE 625E625E 625E625E 625E625E 6B90625E 625E6B90 *.....*
06BC0 625E6B7A 625E6260 625E6ABE 625E625E 625E6260 625E625E 6B90625E 625E6B90 *.....*
06BE0 625E5000 00000000 00000000 D6202000 C3E7C5C3 C5D5C440 D6202894 2516A898 *.....O..CXECEND O.....*
06C00 251E5101 E1FC15A8 C6802ED2 2814CE52 A504259E 208B2089 B9200096 2C3DE40F *.....F..K.....U..*
06C20 EF02A806 2D41D540 2DC12CBD 158028D2 B800626C 28578818 292F0148 29AE20D5 *.....N.A.....K.....N*
06C40 BB206C48 23CDB840 B5E09804 A9D8EF1D 23032814 B8842894 A847DB65 251E9504 *.....Q.....*
06C60 2894259E 55028869 5900299C C91EE67F 5303C984 F984A865 A878950B 2B820B09 *.....I.W..I.9.....*
06C80 88142A1C D2802A9C 90012753 251EF50F 8884B8B7 A8412303 B9206CDE 21CD8120 *...K.....5.....*
06CA0 71E44604 11C84154 812071F4 D628ED2 B9209934 EF2421D5 2127E1C1 D11A21A7 *..U..H.....4O..K.....N..AJ..*
06CC0 110121A5 51102846 82001B00 25BEBD00 65AA253E 4915B800 5900B800 555EEF04 *.....*
06CE0 B534880A E601D64A 2ED2B800 633AE611 A80D2A82 23035908 1518B920 6E1621CD *...W.O..K...W.....*
06D00 E6D72ED2 25BERD00 65AA253E B920FF1C 21D5B800 57A68120 800071E4 03399816 *WP.K.....N.....U...*
06D20 02B771C4 02B9BB20 6C5023CD 20D529BB 71F42ED2 B84032AD A817E6FB 2155A8D2 *...D.....N...4.K...W...K*
06D40 DE09B5E0 9804B800 5E945180 E11E2435 DEB0DE10 B10E88CE B10888C8 490FBC00 *.....H...*
06D60 6468A850 D0009806 F51EFD8C 99212435 490FBC00 6468A828 880D881C EF02A931 *.....5.....*
06D80 A8B2DE0A B10E889E 8306DE8C A821D000 9806F11E FD9D994B 2435490F BC006468 *.....1.....*
06DA0 EF16DB0A DE82A80C 251EA504 259E2C14 94012C94 B80041D0 DE02A81B DB10251E *.....*
06DC0 5502A52C 5C20E47F B44C880C A82D2519 55985598 552EA815 E3F720D5 BD206DE6 *.....U.....T7.N..W*
06DE0 25CDB800 55FEB5E0 9802A8A7 D4009804 B5808853 B9206CDE 21CDB920 993421D5 *.....M.....N*
06E00 E6FB2ED2 B8005E44 B9206E16 21CDB920 E808B800 5E445180 E11EB11C 881CC108 *W..K.....Y.....A..*
06E20 9804A8B7 D5188306 FD84B800 6260EF04 B8006260 D406B800 64F2D608 293DE1EF *...N.....M.....20...*
06E40 D12029BD B8006264 6E686262 6E806EAC 6E8E6EB0 6EB06E9E 6EA86D40 6D406262 *J.....*

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06E60	62626EE0	6FB06ECA	F560992D	CCC62940	8842EF06	DE02A802	EF84D580	A836A8CD	*.....5.....F.....N.....*
06E80	DE02A8FD	F5608901	8302B800	6542DE02	A925FDB2	F5608957	24354403	4009EF04	*.....5.....5.....*
06EA0	FDCEA963	DE20A967	B8006260	F5609806	DE14FDAE	A9752840	897BDE02	A97DE6DF	*.....5.....W.....*
06EC0	D6402ED2	A98DD440	A989DE07	F4FF998F	FD9E2435	4914BC00	6468DE82	A92BA93F	*O.K.M.....4.....*
06EE0	DE0ADA1F	D40099A7	D608A8C7	F4FF99AF	DA2DD400	99B5A8D3	D7E3C650	05040000	*...M...O...G4...M...LPTF...*
06F00	00000000	00000000	62930528	C3E7C5E2	E5E2D2F4	00000000	00000000	00A80000	*.....CXESVSK4.....*
06F20	0080F460	00000000	00000000	00000000	0001B3D0	0001B3D0	00800000	0001B598	*.4.....*
06F40	E7E7C3E7	E3C3C8C2	00000008	00000000	00000000	00005251	716C6FD8	002A0000	*XXCXTCHB.....Q.....*
06F60	040021E1	20000000	001A3198	02200000	00008FD2	00008FE8	00008FFC	0001B5E4	*.....K...Y.....U*
06F80	00000000	0001B5E4	0001B67C	0001B598	0001B598	7168716C	71747168	001400F9	*.....U.....9*
06FAC	04040001	00000000	0001B3D0	000A0014	6FD06FD4	009C009C	00140013	001C0002	*.....M.....*
06FC0	000004B0	00000000	C3E7C3C1	D6C3E6C1	10706FBD	4051B3DE	10706FBD	4051B216	*.....CXCAOCWA.....*
06FE0	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	*.....*
LINES 07000-07140 SAME AS ABOVE									
07160	C3E7C3C1	C9C3E6C1	90F9B5A6	90F9B5F2	9121B634	A121B680	00000000	00867760	*CXCAICWA.9...9.2.....*
07180	09000E20	16800302	0A820000	00867456	0C001120	16C0002B	0A820000	012C73C2	*.....B.....*
071A0	0C001120	16C0002B	0A820000	012C73C2	0A000F20	16C0002B	0A820000	012C74EA	*.....B.....*
071C0	0B001020	1700002B	28480000	00FF0001	FF00719C	718C0000	00000000	00000000	*.....*
071E0	00000000	000071AC	00000000	00000000	00000000	00000000	000071BC	00000000	*.....*
07200	00000000	00000000	00000000	00004F00	008D0C82	00000000	00000000	02000000	*.....*
07220	00000000	00000000	5F250000	03000000	FF000000	4C901680	79390980	0000C080	*.....*
07240	08480000	77600001	00F40000	00000000	04000000	09000E00	02800000	4D500300	*.....4.....*
07260	204D0E00	0000C100	0A820000	01004E00	008D0082	00000000	00000000	00000000	*.....*
07280	00000000	00000000	5F4B0000	01000000	FF000000	4C901680	793F0980	0000C080	*.....*
072A0	084A0000	77600001	00F40000	00000000	04000000	09000E00	02800000	4D500300	*.....4.....*
072C0	204D0E00	00000100	0A820000	01007900	008D0000	000006F4	00000000	00000000	*.....4.....*
072E0	00000000	00000000	5F860000	00017D78	FF000000	39E61680	794501FF	00004800	*.....W.....*
07300	0854F400	732E0001	0000009C	00000000	04000000	0A000F00	03000000	4C040800	*.4.....*
07320	204B0004	00000100	0A820000	0100082A	6A866A2C	6E48C8C0	8AC04847	10057A08	*.....H.....*
07340	7C030302	00001C26	1F377C34	2F2F6E6D	405DFE3D	003E010D	2C5E370E	004F4C7F	*.....*
07360	614C8500	008D0080	00000000	00000000	00000000	00000000	00000000	5FB00000	*.....*
07380	60000000	FF000000	4C9016C0	794B0380	0000C080	084E0000	73C20001	00F40C00	*.....B...4.....*
073A0	00000000	04000000	0A000F00	2B800000	4D500200	214D0600	00000100	05820000	*.....*
073C0	0100002A	6B026B02	6B02C0C0	8AC04847	100679C8	7F010000	00001C37	1F373D34	*.....H.....*
073E0	2F2F6E6D	405DFE3D	003E7C0D	2C3D7C0E	004F4C7F	61403F00	00282850	00000000	*.....*
07400	00000000	1E336D66	6CF40000	01000000	5FD60000	60000000	00000000	36FC16CC	*.....4.....O.....*
07420	79516680	0000C080	08500000	74560101	00200000	0001B407	2201B598	0C001100	*.....*
07440	2B81B598	633A0200	204D6E00	99340100	0A820000	0100002A	6B026B02	6B02C0C0	*.....*
07460	8AC04847	100679C8	7F010000	00001C37	1F373D34	2F2F6E6D	405DFE3D	003E7C0D	*.....H.....*
07480	2C3D7C0E	004F4C7F	61400000	008D0080	00000000	00000000	00000000	00000000	*.....*
074A0	00000000	5FFC0000	31000000	FF000000	4C901700	72100680	0000C080	08520000	*.....*
074C0	74EA0001	00F40000	00000000	04000000	0B001000	2B800000	4D500200	217D0600	*.....4.....*
074E0	00000100	0A500000	0100222A	6B5A6BA2	6BC2C0C0	8AC07877	110679D8	FF010000	*.....B.....Q.....*
07500	00001C38	1F847C80	8B898A8D	405D803D	E085910D	93919140	B1003400	0C8D0000	*.....*
07520	000006F4	00000000	00000000	00000000	00000000	608E0000	0001803C	00000000	*.4.....*
07540	31C21640	793301FF	00004800	0888F400	75780001	0000009C	00000000	04000000	*.B.....4.....*
07560	08C00D00	06000000	4C040700	38CD001E	00000200	00000000	4C1666D6	67CC6E48	*.....O.....*
07580	C8D484C6	C8C51A07	79F8AA03	0F0F3202	10261037	1002101F	10701061	107C102D	*HM.PHE...8.....*
075A0	3D011003	106B8888	00300000	00000000	00000000	0E000000	54A40000	00000000	*.....*
075C0	62C30000	00007604	00018360	1D961770	751C3A80	00004000	08404B18	76600001	*.C.....*
075E0	00000000	00000000	0401AD94	04040000	2B04C000	1E340500	389D0E61	FF981D96	*.....*
07600	C9930001	00300000	00000000	00000000	C9020000	00000000	00000000	62C30000	*I.....I.....C...*

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07620 41018354 040075A8 1ACC1740 75A80440 0000C480 0842F0B8 7660302B 00000000 *.....D...0.....*
07640 5101AF79 1281AF5C 04040051 2B040000 216A051C 389C0E41 FF801ACC C5514101 *.....E...*
07660 8C0E217E 217E219E C4C088C6 98842000 79E80000 00000000 008D0080 00000000 *.....D..F.....Y.....*
07680 00000000 0F000000 00000000 00000000 62FA0000 00018B34 00018B38 4C901740 *.....*
076A0 76043880 00004000 08440000 76D40001 00F40000 00000000 04000000 01010000 *.....M...4.....*
076C0 2B800000 4D500500 389C0621 00000100 00000000 8C0E217E 217E219E C4C088C6 *.....D..F*
076E0 98842000 79E80000 00000000 00300000 00000000 00000000 C4220000 54A70000 *.....Y.....D.....*
07700 00000000 63310000 00018C14 00018C14 1ACC1740 76780940 0000C480 08461E7E *.....D.....*
07720 7748002B 00000000 5101B2BF 1281B2A0 01010051 2B840000 1E48051C 389C0A21 *.....*
07740 D6141ACC C4514100 8C0E217E 217E219E C4C088C6 98842000 79E80000 00000000 *O...D.....D..F...Y...*
07760 1D2A6A86 6A2C6E48 CEC8A8AC 48471004 00007C03 02020000 1C261F37 7C342F2F *.....*
07780 6E6D405D FF3D003E 010D2C5E 370E004F 4C7F6140 0003DF41 000077B8 00009520 *.....*
077A0 00000000 00017F14 00017F58 00000070 90000296 0000D7A2 00007794 000077DC *.....P.....*
077C0 0000A856 060480C2 00017F58 0001B54C 0001B54C 0001B54C 00000000 000077B8 *.....B.....*
077E0 00007800 00009546 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
07800 000077DC 00007824 00000000 00000000 00000000 0000A0C4 00000000 00000000 *.....D.....*
07820 00000000 00007800 00007848 00000000 00000000 00000000 00000000 00000000 *.....*
07840 00000000 00000000 00007824 0003DF40 00000000 00000000 00000000 00000000 *.....*
07860 00000000 00000000 00000000 00000000 00000000 00000000 00000000 660166FE *.....*
07880 66FE0000 00000000 020C4088 0086012C 04B00000 0000B28A 0000B36C 0000B28A *.....*
078A0 0000B28A 0000B28A 0000B28A 0F041004 0F080F0C 80108214 79107910 78C278C2 *.....B..B*
078C0 80000400 0000FF05 00000000 00000000 00000000 00000000 00000000 04000000 *.....*
078E0 FF050000 00000000 00000000 00000000 00000000 00000480 0000FF05 00000000 *.....*
07900 00000000 00000000 00000000 00000000 04000000 FF050000 00000000 00000000 *.....*
07920 00000000 00000000 00000400 0000FF05 00000000 00000000 00000000 00000000 *.....*
07940 00000000 04800000 FF050000 00000000 00000000 00000000 00000000 0000748C *.....*
07960 00910000 727600A2 000072D0 00A20000 736400A2 000073F8 00A20000 748C0086 *.....8.....*
07980 0000FD00 00000000 00000000 00000000 00000000 00000000 00002000 30F04010 *.....0...*
079A0 40204080 4CF05070 507050D0 60F08000 FFFF0F0F 61F0F161 F7F74BF0 F6F0F1F6 *...0...0...03.01.77.06016*
079C0 4BF2F74B F2F4FF00 5B385B7A 5B885B7A 5B9E5B9E 5BAE432C 5D7E5D7E 5B885D7E *..27.24.....*
079E0 5DA85DA8 5DC0432C 24F824F8 432C432C 432C432C 432C432C 5776581A 59B859A8 *.....8.8.....*
07A00 54C855C4 5AE4432C 5776581A 59B8581A 54D055C4 5AEA432C C3E7C2F6 F4D3D4E3 *..H..D..U.....D....CXB64LMT*
07A20 B8200000 3F20B701 8802A82E 3417BE20 000B64B0 8802A822 B4028802 A806BC00 *.....*
07A40 7A6EA814 B4038802 A806BC00 7A9CA808 B920300E B8400000 A812B701 8806BC00 *.....*
07A60 7AECA808 B900F358 00001002 A84FBE20 17C46627 8802A81A 87123D21 7008B840 *.....3.....D.....*
07A80 2803A804 8503A808 4688BC00 7AEC6488 A8084688 BC007ADC 64884088 BE2017C4 *.....*
07AA0 66278826 66196698 669826B8 8802A81A 871455A8 7008B840 2803A804 8503A808 *.....*
07AC0 4688BC00 7AEC6488 A810B920 F3D01482 B900F358 40000816 55284088 B920F3D0 *.....*
07AE0 1482B900 F3584000 08154088 B920F3D0 1482B900 F3584000 080C4088 00000000 *.....3.....3.....3.....*
07B00 BC2017C4 26888812 463B9802 26316101 BE200020 F982A802 A8E0BE20 00204DB8 *..D.....9.....*
07B20 87024527 B9207BEA 41C642A7 5288990A 40AF4227 889476E4 453B980C 2531F501 *.....F.....U.....5...*
07B40 88062588 A5025501 76F4BE20 05A845B1 4D384DAE 13BC618E B9207B66 618A8001 *.....4.....*
07B60 8182B800 952A610E 350A8892 618E67A2 8008649A 5488BF00 9A780000 641A5087 *.....*
07B80 51135711 51915793 11C85999 810159A3 590EE1FD 598E8183 599D45BE 45C25788 *.....H.....B...*
07BA0 49348020 051845B6 0128E1FC 49B2A016 91167183 482A48B3 40104531 BE200020 *.....*
07BC0 76E45481 76F444F8 44982F53 11C8CF86 49C0B800 497ED180 DF0C49C0 4D38BC20 *..U...4.8.....H.....J.....*
07BE0 17E82223 A8C9D140 A81B4940 C902A821 C9A3BC20 17E822C8 A8DD76F4 B8404227 *..Y...IJ...I...I...Y.H...4...*
07C00 87032D53 CD86433E 3FA3A824 DD0C4388 9324333E 881A3FA3 A8164388 A324333E *.....*
07C20 880E3C23 FC0AD403 3CA38401 4CAE4046 BE200020 76E440A7 A806BE20 002076E4 *.....M.....U.....U...*
07C40 40AF433E 40BE4E40 76583EA3 45315281 40B140BB 4F32A906 24F84498 42274733 *.....*
07C60 A604987A 45364EB2 950445B6 538375C 4F2F5781 CA84B800 00882025 8600BF84 *.....*
07C80 87014FAE 47B30755 B7089802 BFA06668 98070D09 CD50BF96 D5800D89 075707D5 *.....N.....N*

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07CA0 BD200446 BF2C01FC 758275D4 A80207D5
07CC0 45CA0810 A80A5788 77F877F8 67814F34
07CE0 7C7C4227 A881453E 86035EA3 86014EAE
07D00 CF0FB2E0 05A8618E B9207D16 618A8001
07D20 8009649A 7488BF00 9A780000 641A4934
07D40 A1161008 492A8420 47C24718 47B64F32
07D60 76F48000 39038400 4E2BA80A 66986698
07D80 75282D83 7128A10A 31974E2F 3EA1BE20
07DA0 B9207DB0 618A6292 67A28140 B800981E
07DC0 BE2005A8 BA2197F4 618EB900 962C0002
07DE0 981E5288 7588433E 8842618E B9207DFA
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07EA0 6117F982 A81E2301 33983398 3121B003
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07EE0 A810B452 980C880A 7778E738 77787778
07F00 3580B920 82E4A813 B92082EC A81916EC
07F20 4713B920 179417B0 88D6BF20 178047A5
07F40 6719679F 62232298 22982411 B4409802
07F60 9802A8B8 03183581 5188BA00 81E898A6
07F80 3585A802 659DBA00 81E8988A E8043587
07FA0 73A89308 7B82A83E F8864231 E5F7A812
07FC0 D5086D8F 852075E4 4204E882 A80A435C
07FE0 A802434C 47111588 B9208224 41184118
08000 BF201784 47938601 B92082E8 A81D8601
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08040 260E860C A8536703 260E6A0F E3F03258
08060 4318CF34 DF02A82E 6383231B 53188808
08080 B920808F 618A1482 8100B800 95600000
080A0 2631A80A 2388A302 360166F8 66988320
080C0 4688E0C0 E1201180 8810611D 880C611F
080E0 51838600 A8F38700 6F8F6081 67237798
08100 83D08802 A80A6117 D1106197 8600A8A6
08120 310E41C2 910441BE 311141B7 310B4191
08140 BF201788 47938601 A81EFC1C 80103882
08160 17904293 8601A800 A84CFC22 800C3882
08180 03084354 B920179C 41938601 A828310E
081A0 17A04193 B92017A4 41A5415C E0F0D005
081C0 63213398 33980F07 75289812 33013398
081E0 6DA49304 63A62088 65199502 65996726
08200 5598880C 950465A6 55018600 6EA4A808
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08260 000082F0 000082F0 000082F0 000083A2
08280 000082F0 000082F0 000082F0 000082F0
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082E0 0000881E 00008850 00007FF4 00008912
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00008476 000084DC 000085B2 000086CC
000087E2 000087F6 00008802 0000881E
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981E8601 AB2373E0 A80A73D0 A80673C0

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* .....M.....N.....F.....*
* .....8.8.....B.....*
* .....9.F.....*
* .....U.....*
* .....B.....*
* 4.....*
* .....4.....*
* .....4.....S.....*
* .....*
* .....A.....*
* .....PTF.....CXDK*
* LTG2.....*
* .....A.....U.....*
* 9.....*
* .....R.....Y.....*
* .....X.....*
* .....U.....F.W.....*
* .....O.....1..Q1.....Y.O*
* .....H.....*
* .....Y..Y.....Y..Y..*
* .....Y..Y.....V.Y.....*
* .....8..V7.....8.....*
* N.....U..Y.....8.....*
* .....4.....*
* .....Y.....Y.....*
* .....Y..Y.....Y.....3..T.....*
* .....T.O.....*
* .....*
* .....8..U.....u*
* .....2262516 B9200400*
* 3.....U.....*
* .....J.....*
* .....B.....OH.....*
* .....Z.....*
* .....W.O.....*
* .....B.....*
* .....O.....E.....*
* .....P.....*
* .....J.....*
* .....6..W..O.....*
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* 0..0..0.....B.....*
* 0..0..0..0..0.....*
* 0.....S..6.....*
* 4.....J.....*

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08320	A8027380	FC8AFC04	4344A802	4354A802	4364BA00	83D0AB45	7303D320	7383B900	*.....L.....*
08340	88908600	AB53BA00	81E89854	6126A104	41C29104	6D245118	41BE4716	82108388	*.....Y.....B.....*
08360	710BC802	E3F77383	E07F6319	13909301	E3FE639D	0C075428	41289804	4191A804	*.H.T7.....T.....*
08380	40911418	45B77488	BA0081B8	BA0081E8	458D4C04	FC82A806	BA0081E8	458F8600	*.....Y.....Y.....*
083A0	ABAF7103	D1407183	A0020718	7101FC84	E00F7880	8600ABC5	7103D120	71838600	*.....J.....E.....J.....*
083C0	ABCF7303	D3207383	E9008890	8600ABDD	B5008824	BF201784	4793BF20	17B047A5	*.....L.....*
083E0	BF2017B4	47CD4E2F	56484EAE	6717E61F	E7DF6797	8601A802	86002088	622A8016	*.....W.X.....*
08400	44A08601	B8402802	AD13AD15	6117D102	61978601	AD1F5308	BA0081E8	9854B840	*.....J.....Y.....*
08420	4BDEBD20	0000883E	C802A83A	5426D902	A810FB82	A8084F53	CF82A802	44235812	*.....H.....R.....*
08440	A8025828	E605881C	F882A818	440E4523	55985598	4117F902	A80AE1FD	4197B840	*.....8.....9.....*
08460	1D188609	A8028600	B6098806	6317D204	63978600	AD7F6089	82006A8A	6A16E2FC	*.....K.....S.....*
08480	6A966423	44984498	43013398	33984411	8020818F	4181B920	03804183	8001B840	*.....*
084A0	034AC902	A8E85008	350A9504	45A25488	40309001	0078BA00	81E89816	44304530	*.I.Y.....Y.....*
084C0	B88D622A	EF208996	278AB840	23008601	A8086717	D7106797	8600ADE5	62232298	*.....P.....V.....*
084E0	22982301	33983398	8002B840	034A340A	889C8009	B8405011	43013398	3398BF20	*.....*
08500	001C3783	9304840E	61881701	37819102	9032FC8B	6117E902	A806A302	612D3181	*.....Z.....*
08520	22118300	B5028802	A8202851	47017798	77982953	71A52131	71A12849	295071A3	*.....*
08540	800078A6	83237B83	83078020	48A2B500	8802A81E	251B8816	3518209B	214A20CA	*.....*
08560	42012298	229811F8	11F82181	A80255A0	A80255A0	6117E902	A80481E8	49A29528	*.....8.8.....Z.....Y.....*
08580	35184597	86004388	BC008950	AE97631F	639DBA00	81B86223	22982298	B8400F00	*.....*
085A0	3085ED20	0002B840	2C810058	8601B800	7EF8B501	98048802	A9046423	44984498	*.....8.....*
085C0	4211B920	7E68418A	234A8806	B8400508	20CAB840	0F103701	77987798	8806B840	*.....*
085E0	05283081	BF20000C	37978716	860A3783	8601B500	8802A8A0	3C21E47F	B4068806	*.....U.....*
08600	B4078802	A88A2F53	CF82A826	11A84908	880414A8	A8048118	14984501	55985598	*.....*
08620	8802A80C	46166F0F	EF82A802	8600A802	86004616	662A6226	250EA504	B8400518	*.....*
08640	2F53FF82	A80ERD21	2088658A	6D12E5FE	6D92A80C	BD20CFC0	658A6D28	E5FE6DA8	*.....V.....V.....*
08660	208E2131	1501E5FE	1581BD20	17B825A5	2841E0F3	28C1CF82	A8142223	208E25A5	*.....V.....3.A.....3.A.....*
08680	21311501	E5FE1581	2841E0F3	28C1A808	8600611F	D1106197	260EB601	8802A80A	*...V...3.A...J.....*
086A0	85623DA2	BC008950	A8126517	D5106597	64234498	4498B840	109100C2	A80CB502	*.....N.....B.....*
086C0	88066517	D5106597	8600AAC3	62232298	2298B840	0F003085	8400B840	2C810058	*...N...C.....*
086E0	6C0FD404	6C8F8601	AAE1CD02	A80A5518	84006598	5101A808	84006598	11285800	*...M.....*
08700	6317BA00	81E8980C	51B08804	D210A802	E2EFA802	D3106397	8600AB13	8600B920	*.....Y.....K...S...L.....*
08720	00821900	B1628802	A808622A	24264731	E6038708	B6008806	7778A601	A80B0812	*.....W.....*
08740	B5008802	A806C7FF	7068A812	70688802	A8060812	7058A806	6517D408	65970892	*.....G.....M.....*
08760	AB594308	E30F6188	5118BA00	81E89856	65ADBA00	81E89846	622D8722	140354E0	*.....T.....Y.....Y.....*
08780	8802A80C	140124E0	8802A802	8744A812	54C08802	A80C1401	24E024C0	8802A802	*.....*
087A0	87882228	93086398	3D00F982	A806E70E	E5F1A804	E7E0E51F	75583D80	A8066517	*.....9...X.V1...X.V.....*
087C0	D5106597	A8066517	D5106597	8600ABC7	6788E40F	94084718	7C005458	7C808600	*N.....N.....G...U.....*
087E0	ABD96788	E40F9408	47187C00	54585448	7C808600	ABED6788	E40F4718	7D808600	*.R...U.....U.....*
08800	ABF96788	81E8980C	51B08804	D210A802	88049802	53487C80	6B8B8600	AC154608	*.9...U.....*
08820	6388E40F	43189308	3800DE82	A802C0FF	5108BA00	81E8980E	01688802	A806659D	*...U.....Y.....*
08840	BA0081B8	A8066509	D5106589	8600AC47	63233398	33983311	B9201780	31A56121	*.....N.....*
08860	11981198	910461A6	871E6FA4	7118BF20	FFFE6799	BF204801	1783BF20	4A011785	*.....*
08880	6717E7EF	D7086797	631F63AD	8600AC87	454A8802	A8266323	33983398	33013398	*.X.P.....*
088A0	3398BE20	05A8618E	B92088B6	618A8001	81C2B800	952A610E	350A8834	45CA5288	*.....B.....*
088C0	47167B02	82063218	7A823718	7582A702	75010B07	82002383	35289806	75817B86	*.....*
088E0	A8087081	35187D86	2D837A87	460E1088	460E651F	659DBA00	81B84516	5303D301	*.....L.....*
08900	A2085383	85C64C2F	54484CAE	86019102	108880FE	BC008946	8060BC00	89462411	*.....F.....*
08920	B9201780	41A56117	E1FE6197	B9207E68	218A0909	D902A80A	B8402170	000170E0	*.....R.....*
08940	00008601	AD3DB840	0FC033E8	883E38A2	A8160000	00000000	00000000	BC200000	*.....Y.....*
08960	BE200000	B8000000	B84020B6	0000F520	00002801	00300000	89540000	F524CF8C	*.....5.....5.....*
08980	DF8ADF02	A804B840	0509A808	B9203005	B8400000	40882626	640E4117	6A07B280	*.....*

089A0	880CB2FC	8804D110	A802D001	A802D002	41976122	1A03A201	4A8A1A01	1B024389	*.....J.....*
089C0	A1041788	B8400528	47237798	7798B840	1D68B840	35405001	00000000	61800325	*.....*.....*
089E0	C3E7C4D2	D3C9D7F4	22F82298	270B2668	76488808	240E4717	D6404797	20138003	*CXDKLIP4.8.....O.....*
08A00	F88A272F	D6807648	2EAEA80C	2E2FC680	E6802EAE	BD008A48	F802A81E	253B981A	*8...O.....F.W.....8.....*
08A20	850125BB	C4399806	02B772C4	A80242AD	20AD02B9	BF2017B4	27CD475C	EE02A802	*.....D.....*
08A40	E2FB4344	A80QB840	240E4391	475C4793	477C4795	BF201780	27A55088	243E4330	*S.....*
08A60	25379501	A401CE90	880825B7	24BE8000	A804BC00	8D7AA81C	240E2711	47184783	*.....*
08A80	27427D83	271B5718	279B2716	7103E1DF	71838003	A897BF20	17902793	475CE6F0	*.....WO*
08AA0	D60A6708	4754A8C1	984AE2FE	273E2137	73109101	B8B629C0	08072511	881E8100	*O.....A.S.....*
08AC0	05289802	A8045018	55A02591	27427701	77987798	882A27C2	9704A810	BD2017C0	*.....B.....*
08AE0	25A5455C	E4F0D409	45084554	21B727BE	8000A80A	25112737	65184581	8003A901	*.....UOM.....*
08B00	240E4717	D7104797	22F82298	8003A813	22F82298	2116130D	1505FCA2	1503E57F	*.....P.....8.....8.....V.*
08B20	1583CD88	BD201780	8003A810	BF008B4E	4C0FE4FD	4C8FBD20	17988000	A80CE4FE	*.....U.....U.*
08B40	1585150F	158D2525	800025A5	A94F4118	240E1503	258B1505	459D1507	25917088	*.....*
08B60	22F82298	27167503	41089408	75831718	7501282F	504828AE	21111308	FC86455C	*.8.....*
08B80	E4F04058	01084154	B92017B0	21A5B920	179C2193	9000A999	982A240E	45172810	*UO.....*
08BA0	3038880E	47079701	47879802	A802D540	A80C4705	97014785	9802A802	D5804597	*.....N.....N.*
08BC0	8000A802	8001A9C9	98542116	1503E5BF	1583DD04	8003A844	BF008B4E	15012E2F	*.....I.....V.....*
08BE0	56482EAE	B4168824	170A27C2	970427BE	170D27B7	B406880C	BF2017A4	27A5BF20	*.....B.....*
08C00	17A0A804	BF201788	8000A80E	27167D03	D5017D83	BF201794	80022793	A8028003	*.....N.....*
08C20	AA2322F8	22988000	288CBD20	17C4EA82	A80225A5	8000AA39	BD2017B0	25A5BD20	*.8.....D.....*
08C40	FFFF25B3	E2FBAA61	22F82298	2537243E	290CCEE E	EAAED904	9108298C	433073B4	*.S.....8.....R.....*
08C60	213371CC	21B39501	A4018808	25B724BE	8000A80E	BC008D7A	8808240E	4517D520	*.....N.*
08C80	4597A83C	D9195418	850025B7	2D8C2542	950425BE	BD2017C4	25A58000	A8222442	*.....R.....D.....*
08CA0	4D83211F	5118219B	2733BD20	F0B8240E	411757B0	8804D020	A802E0DF	41978003	*.....O.....*
08CC0	A842CA02	A824D922	54188500	25B72542	950425BE	85854554	BD2017A4	25A5240E	*.....R.....*
08CE0	4517E4BF	45978000	A81A4B80	9501A401	240E2711	47184783	27427D83	271B5718	*.U.....*
08D00	279B8003	D204AB09	BC2089E8	27427501	55985598	8802A838	0755B708	9802BFA0	*.K.....Y.....*
08D20	66689807	0D09CD42	BF96D580	0D890757	07D5BD20	0446BF20	01FC7582	75D4A802	*.....N.....N.....M.*
08D40	C7D50546	08075701	77987798	07C65081	50835883	274225C2	51F811F8	71819504	*.N.....F.....B.8.8.*
08D60	25BEB920	17B021A5	408822F8	2299240E	4717D704	47978003	AB7B211B	5118219B	*.....8.....P.....*
08D80	08078100	27118818	07289802	A8047018	77A02791	21B7B920	17C821A5	8000A806	*.....H.....*
08DA0	21421D83	80034088	A8002951	E1F04154	B9201780	21A54344	A8008840	D7E3C650	*.....O.....PTF.*
08DC0	05040000	00000000	63170668	C3E7C4D2	D3C9D6F4	00000000	BE2005A8	BC206F48	*.....CXDKLIP4.8.....O.....*
08DE0	45014587	41035174	535C439B	DB92DCB2	FABEEA16	4503D512	45A15574	B8000124	*.....N.....*
08E00	E4EF4581	4503D506	AD044501	CC02A80E	E47FD408	4581BD20	0200459D	55544503	*.U.....N.....U.M.....*
08E20	ACECE46F	D4084581	BF208400	4503ACDA	40970D33	0DAD57CC	47A5F620	9C58F642	*.U.M.....6..6.*
08E40	989EF708	882855AC	45A3B493	8826B432	8AC2B452	8ACAB431	882AB451	8826BF20	*.7.....*
08E60	80004797	5734BF20	06004503	AC8AB920	0010AD7A	87324F8E	87314F8F	BF200400	*.....*
08E80	4503AC86	4236980C	BF009082	22888842	42B640BE	40BA473E	72B8880A	42BEBF00	*.....*
08EA0	90AABF00	90E64523	4F0F7438	8806415B	41DDA808	C7604F8F	40DB40DD	454F4591	*.....W.....G.....*
08EC0	5504BB20	2C00439D	5354BF20	04004503	AC3840BA	40BE40C2	BF200500	4503AC18	*.....B.....*
08EE0	431BF240	980AF320	984CB920	0011ACFE	45428988	45BA5201	22982298	22889810	*.2..3.....*
08F00	BF009082	27888820	453A77F8	77F85781	42BEBF00	90AA454F	45915504	BD202000	*.....W.B.....B.....*
08F20	459D5554	4503ABE6	40BE40C2	40BABF20	0D004503	ABC2510C	4191A104	532C4395	*.W.P.O.O..N.....L.....*
08F40	1701E60F	47D777F0	77F037A0	47D57788	9802A104	41D3434F	13B08808	980A433A	*.....F.*
08F60	88FCA80A	433EA806	41531302	A3043388	890A43CA	47558802	3F834536	45C677A8	*.....W.....*
08F80	58030718	53R8880A	55015598	559888EC	A8134346	3789475D	881AA701	47DD40B9	*.....*
08FA0	4236473E	72B88874	42BEBF00	90AABF00	90E6A868	41539104	41CF4751	71B0982E	*.....W.....*
08FC0	882C434A	32012298	22982288	9810BF00	90822788	8896434A	77F877F8	378142B6	*.....8.8.*
08FE0	42BE40BA	BF0090AA	BF0090E6	A80E1502	A50445B6	45BE40BA	BF0090E6	434A3081	*.....W.....W.....*
09000	4346BC20	6F18B900	F708BC20	6F48B104	884CB106	8848415B	910141DB	4125F002	*.....7.....0.*

09020	9814454F	45915504	B9202000	419D5154	BF200400	A8224101	C80EE80C	C886BF20	* .....	H.Y.H...	*
09040	0400A814	BF00943A	4101E07F	D0084181	BF204400	417B0187	4503D502	AAACBF20	* .....	N.....	*
09060	08004797	5734BF20	0600A80A	40BE40C2	40BABF20	05004503	D502AA7C	B9200020	* .....	B.....N.....	*
09080	AB6C47AA	485848D9	BF206F38	618EB920	909E618A	1782680E	81D0B800	952A0000	* .....	R.....	*
090A0	6F38610E	72068800	402A47AE	4E59454D	45CFA504	433E883D	950411A8	09073183	* .....		*
090C0	11981198	D0905181	32889304	53822301	88063398	3398BEA1	42C25900	E10FD1A0	* .....	B.....J..*	*
090E0	598045D1	402E47B2	42368871	414F33A8	0B07A30A	33983398	1501BF20	F00375E8	* .....	J.....O..Y*	*
09100	35D81581	BD20000E	25981582	820A0E07	A30A2383	20852087	2089208B	208D4032	* .....	Q.....	*
09120	45234F0E	74388826	BA206F30	23028816	43694393	5314BB20	1000439D	5354BF20	* .....		*
09140	04004503	A9C4BF20	05004503	A9AA4101	E80CE0F7	4181BF20	05004503	A99ABA20	* .....	D.....Y..7.....	*
09160	6F282302	89244F0E	C7604F8E	BA206F30	23028824	37C77798	77988812	350D5598	* .....	G.....	*
09180	5598890C	738877F8	77F85781	A81B2302	20822086	BF0092E8	416941EB	417141F3	* .....	8.8.....Y.....3*	*
091A0	416D41EF	BA206F28	230288B4	4573370B	75B098AC	75A045F3	457975A0	98C645F9	* .....	3.....F.9*	*
091C0	BA206F28	BF009316	BA206F30	BF009332	22064375	881A456F	35A045EF	33903390	* .....		*
091E0	D210416E	13814788	97751782	910441EB	210348E5	49E74765	97042798	4367456F	* .....	K.....V.X.....*	*
09200	35B09814	35A045EF	33903390	55809828	416D41EF	D250A822	53A04BE7	43655318	* .....	K.....X.....*	*
09220	43E55590	5590D450	416B1581	17829104	41EB416D	41EFA843	D210416B	13811782	* .....	V.....M.....K.....*	*
09240	910441EB	2201880A	22982298	2F03880D	A863416B	A1041C00	E40FD450	1C80A8C1	* .....	.....U.M.....A*	*
09260	416BA104	41EB1C00	E40FD440	1C80A369	43935314	BF201000	479D5754	BF200400	* .....	U.M.....	*
09280	4503A886	B9200026	A964B920	0027A95E	B9200028	A958CAA6	DB12551C	4593A504	* .....		*
092A0	476B75B0	881EB920	0024A942	BB200800	43975334	BF200600	4503D502	A84CB920	* .....	N.....	*
092C0	0018A92A	00874301	E2F74381	BF0093B0	4301CA06	BF200500	A80AE27F	D2084381	* .....	S7.....S.K....*	*
092E0	BF208400	4503A822	618EB920	92F6618A	8120B800	A49A7088	4101C802	A80CE07F	* .....	.....6.....H.....*	*
09300	D0084181	D680417B	01875744	4799D510	557445A1	B8402302	88123507	55985598	* .....	O.....N.....*	*
09320	55889802	25862582	30877088	B9200022	A8BC3087	25069806	23822386	70882386	* .....		*
09340	33F833F8	53877088	6606BC20	6F483388	885243E2	41753509	1590426D	21B09806	* .....	8.8.....S.....*	*
09360	B9200021	A8A477A8	970125A0	88049802	A80E378B	417171B0	9824BD20	001075E4	* .....	.....9.....4.....U*	*
09380	45797598	982445F9	BA206F28	BF009332	BF0093B0	BD200010	75F46602	600AB920	* .....	9.....	*
093A0	0005A866	B9200023	A860B920	0026A85A	4301F288	98364579	88324171	51B09818	* .....	.....2.....*	*
093C0	8816DA9E	CAA6417B	01874177	880A0183	B240E27F	43817088	DA88E2BF	0083417B	* .....	.....K.S.....S.....*	*
093E0	0187D280	43814103	D1805174	7088BF20	40005734	4797860E	57444799	4303D316	* .....	K.....J.....L..*	*
09400	537443A1	BF200400	BF83B800	97B0618E	6292649A	659E6606	BC206F48	515C419B	* .....		*
09420	516C419F	4103BD20	002051D0	51746602	610E6212	641A651E	600ABC20	6F484101	* .....		*
09440	E0BFD080	41814103	D1805174	00837088	50000000	D6202000	C3E7C3C1	C9D6E2F4	* .....	J.....O...CXCAIOS4*	*
09460	002C0030	008600AC	00CC00D8	00E400E8	012E0180	0196021A	02920296	033A0366	* .....	.....Q.U.Y.....*	*
09480	039003B2	03BA002A	03CA03D2	048E04D2	04FE0544	05B00648	04800628	0638002A	* .....	.....K...K.....*	*
094A0	002A002A	002A002A	002A0504	03DA0454	058CC920	1784BD20	9520658A	B0529804	* .....	.....I.....*	*
094C0	8101AADA	BD209460	0518179C	60085501	178C5098	79019702	C9271578	E51C5098	* .....	.....I...V.....*	*
094E0	14ACA831	14BCA835	14CCA839	14DCA83D	14ECA841	14FCA845	74029704	A84BA841	* .....		*
09500	119CAAAC	2388F91A	A3043F05	E77F3F85	C930BF20	951E678A	618EB800	A3581194	* .....	.....9.....X...I.....*	*
09520	B840BF00	9B2C0318	A8216292	6396649A	659E67A2	D982A833	650A5302	9504658A	* .....	.....R.....*	*
09540	A83DBD00	95546602	62126316	641A651E	6722600A	6606658A	A8412388	B800A49A	* .....		*
09560	6396659E	650A5302	9504658A	6606BD20	9576658A	A81B6602	610E6316	651E600A	* .....		*
09580	2488BF00	9B2C0310	63964388	BF009B2C	03116316	34B88804	B800A33E	8102A0A0	* .....		*
095A0	2388BF00	9B2C0312	B8009FD4	2388BF00	9B2C0314	B8009FCA	B800A644	BB0095CC	* .....	.....M.....*	*
095C0	C90413BA	B840178C	7382B840	638A618E	67A2B800	A8D06292	639667A2	670AE912	* .....	I.....Z.....*	*
095E0	6606BB00	95CC6602	E990610E	62126722	600A7202	9704678A	A81B670A	73826316	* .....	.....Z.....*	*
09600	A81932B8	88463805	E0F8B0A8	980A055B	55985598	35B88838	3805E0F0	B0A09802	* .....	.....8.....0.....*	*
09620	A806BF00	9B2C0210	B800A784	62926396	67A21788	71019702	E806E88A	678AA819	* .....	.....Y.Y.....*	*
09640	72029704	A80D7302	9704A811	8108A802	811BA952	23883805	E0F0B0A0	9802A806	* .....	.....O.....*	*
09660	BF009B2C	0215B800	A0D03488	C9822388	C98E43B8	88463805	E0F0B0A0	9808A80C	* .....	.....I...I...O.....*	*
09680	32B8883C	A806BF00	9B2C0211	639664388	3805E0F8	B0A8980A	055B5598	559845B8	* .....	.....8.....*	*



096A0	88163805	E0F0B0A0	9802A806	BF009B2C	02126316	B800A85A	811AA806	8106A802	*.....0.....*
096C0	8107A8E2	62926396	649A67A2	670AC994	E986F90A	678AA825	73029704	A80D7402	*...S.....I.Z.9.....*
096E0	9704A811	E982A817	72029704	A81DBC20	9712648A	618E32B8	880A3805	E0F0B0A0	*...Z.....0.....*
09700	9806A80A	8103A89E	BF009B2C	0213B800	A0E8C98A	D90414C4	B84014B4	B840178C	*.....YI.R.D.....*
09720	7482B840	62926396	649A67A2	670AE9A2	E9286606	BC009762	6602F90C	6316F98E	*.....Z.Z.....9..9..*
09740	610E6212	6722600A	4388641A	A80F7482	A8097302	9704678A	A82B7202	9704678A	*.....M.....R.I.....*
09760	A831648A	A859B800	9C04B800	9DD46292	6396659E	650AD99A	C91E658A	BD00978C	*.....9.....*
09780	6602610E	62126316	651E600A	6606658A	A8295202	9504A821	53029504	A8258000	*.....9.....*
097A0	A80E8001	A80A8002	A8068003	A8028004	01E17114	B0078804	712CF906	B9202000	*.....9.....*
097C0	7194B920	08404104	B9208002	4134015A	1B38CB02	A834B920	09404104	B9208002	*.....M.....*
097E0	4134015A	1B3CCB02	A820B920	0A404104	B9208002	4134015A	1B40CB02	A80CB920	*.....Z.....8..*
09800	0B404104	B9208002	41347004	A805B800	A16C6292	67A2670A	72029704	678A71D4	*.....F.....8..*
09820	A8156396	E90C610A	13029104	618AB820	9B90610A	13029304	A8110805	2805E0F8	*...I..Z.9.Z.....*
09840	B0A89802	A804810E	A8A9B800	9BC66292	67A2670A	72029704	678A2805	E0F8B0A8	*.....W.....*
09860	981DA81B	C9923188	E982F984	E90EA812	46887402	9704A80A	71019702	BC200004	*.W.....W.....W.....*
09880	2498B800	A270BC00	98E6B800	40B82388	BF009B2C	0015B900	ABCCB840	3588BC00	*.....T8.....*
098A0	98E6B800	457CBC00	98E6B800	48266292	6396221A	BC0098E6	62126316	BF009B2C	*.....D.....*
098C0	000FBC00	AC5A1194	B840649A	659E67A2	17019102	618A7188	BC00AC5A	641A651E	*.....8.8.....*
098E0	67221188	600A2327	33193398	339823B8	88048103	A9592B05	E3F8B3A8	980D4088	*.....8.....*
09900	62926396	13029104	618AA806	62926396	618A649A	659E67A2	6606B900	ABCC6602	*.....9.I.....I.....*
09920	610E6212	6316A84D	2388BF00	9B2C0016	B900AA58	BD200100	88028402	75941194	*.....K.....R.Z.....*
09940	B8406292	649A659E	67A2BF00	9BC20016	B800AA58	15DCBB20	17C414CC	34BBB800	*.....4I.I.....U.....*
09960	7B00C9BA	A3043805	E07F3885	3489BD20	A8C054B8	98048802	A81C22F8	22F8328B	*.....8.....*
09980	22982298	2805E0F8	B0A8980E	3805D050	3885B800	03288108	A8028122	A9FDBF00	*.....9.....*
099A0	9B2C0021	A8412388	BF009B2C	0112B800	9F366396	659E650A	53889504	658ABD00	*.....U.....S.....4.....*
099C0	99CA6602	6316651E	600A6606	658A3302	A825BC00	A9FEA806	BC00A952	7794178C	*.....U.....T.....4.....*
099E0	980AF910	C9109702	1784B840	C90413B4	B8407382	B8409706	A813649A	659E67A2	*.....8.....*
09A00	17889102	618A7101	BC00A952	610E641A	651E6722	3388600A	2488BF00	9B2C0114	*.....4.....4.....*
09A20	63964388	BF009B2C	01166316	B800A9D2	6396649A	659E650A	D99AE91E	658ABD00	*.....4I.I.....U.....*
09A40	9A4E6602	610E6316	641A651E	600A6606	658AA829	53029504	A8215402	9504A825	*.....8.....*
09A60	2488BF00	9B2C0113	63964388	BF009B2C	01156316	B800A914	659E7901	9702678A	*.....U.....S.....4.....*
09A80	B800A914	BF200070	77F4025B	22982298	0A05EA06	E23F0A85	00DB77F4	EA08230D	*.....U.....T.....4.....*
09AA0	8804810C	AB050A05	EA2277E4	2B04DB02	A81AE3DE	2B8477F4	618EB920	9ACAE18A	*.....4I.I.....U.....*
09AC0	629267A2	8100B800	981EA82C	77F4C9A8	C914618E	B9209AE4	618A6292	67A28100	*.....8.....*
09AE0	B800985A	A812618E	B9209AF8	618A6292	67A28180	B800985A	B800A670	34882388	*.....4.....4.....*
09B00	BF009B2C	04014388	B800ACF4	34882388	BF009B2C	04034388	B800ACF4	FB200070	*.....U.....4.....*
09B20	73E40909	10480889	73F4B840	67A20756	73B8980C	075237B8	98066722	97027088	*.....O...CXASUPV.....*
09B40	67227101	AB975000	00000000	D6202000	C3E7C1E2	E4D7E57B	618E6292	63966606	*.....T.....*
09B60	014A024E	02CA01CE	618EB900	962C0002	0263B920	A8C012A8	02E3024A	23013398	*.....X.....I.J.I.....*
09B80	33983109	01E76602	610E6212	6316600A	62926606	3901C926	D1803981	C98A6602	*.....2298A304
09BA0	610E6212	6316600A	E1AF3981	32072298	2298A304	618EB900	962C0042	A821B920	*.....9812E0EF
09BC0	0130B800	97B0BF20	007077E4	2804F0A0	9812E0EF	288477F4	C90A2101	11981198	*.....U..0.....4I.....*
09BE0	11E89808	610E6212	6722600A	6606618E	B9209C00	618A6292	67A28100	B800981E	*.Y.....*
09C00	6602A821	025B2298	2298260D	66986698	66E89808	B920012D	B80097B0	BC200004	*.....Y.....*
09C20	630A1384	6E08FE8E	FE14EE9A	EE20DEA6	DE2CCBB2	A834630E	13946698	A817630E	*.....D.....M.....*
09C40	13A44698	A81D630E	13B44698	A823639E	13C44698	A829630E	13D44698	A82F630E	*.....U.....4.....8.8.....*
09C60	13E44698	A835630E	13F4260D	66986698	63028804	30853087	33F833F8	238D6388	*.....670618A
09C80	BE207794	BF209C8E	678AB800	A5B2B800	A670618A	6396649A	6606B900	E5C03109	*.....81043983
09CA0	372171B0	884E31A3	37A5818F	399A11A8	81043983	31A13401	881A4498	44983081	*.....00000000
09CC0	618EB920	9CD0618A	14828140	B8009560	00000000	BA2004FC	618EB900	962C0042	*.....399AA81D
09CE0	66026316	641A600A	819B399A	A81B8108	399AA81D	3417618E	081481FF	14E0B921	*.....DF2B3093
09D00	7A644498	44981498	610E308D	348E0F09	DF2B3093	309B4900	C986BA21	9794A849	*.....I.....*

09D20	41029108	1288311D	B0089814	C982A859	618EB920	9D3E619A	8141B800	9DD4A826	*.....I.....M.*
09D40	B005880E	B006880A	B0028802	A877E902	A87B2501	987F618F	B9209D64	618A8141	*.....Z.....*
09D60	B8009DD4	A88F2401	887D4498	44982503	55985598	8108599A	411DB008	9802C99A	*...M.....I.*
09D80	3488618E	B9209D98	618A6292	6396649A	67A28140	B800A85A	A8BB4507	55985598	*.....*
09DA0	88CB511D	B0089802	C9A64107	11981198	88DB4188	34881388	618EB920	9DCE618A	*.....I.....*
09DC0	62926396	649A67A2	8100B800	A85AA8F1	5488A83B	6396649A	659E67A2	2805E0F8	*.....1.....8*
09DE0	B0A89802	A808B920	0129B800	97B0BD20	005075E4	C982238A	F9282809	F98CF912	*.....UI...9...9.Z.*
09E00	E998F0E0	8920E01F	A81AC816	E09FD080	A812D80E	E03FD020	A80AC886	E05FD040	*Z.O.....H.....Q.....H...*
09E20	A802A902	2F04CF02	A8FA2E09	2507240F	45B88802	A84ECE16	CEA6DE36	04534498	*.....*
09E40	449824B8	8802A8DC	00D100D3	A8B2044B	44984498	24B88802	A8CA00C9	00CBA8A0	*.....J.L.....I...*
09E60	04474498	449824B8	8802A8B8	00C500C7	A88E044F	44984498	24B88802	A8A600CD	*.....E.G.....*
09E80	00CFA87C	44E8984E	CE16CEA6	DE360453	44984498	24B88802	A88A44A8	05D3A85A	*....Y.....L...*
09EA0	044B4498	449824B8	8802A878	44A805CB	A8480447	44984498	24B88802	A86644A8	*.....*
09EC0	05C7A836	044F4498	449824B8	8802A854	44A805CF	A8244498	44984587	44F844F8	*.G.....8.8*
09EE0	55E89816	CE08CE8A	DEF0C0D1	A81204C9	A80E04C5	A80A04CD	A8065598	5598548F	*.Y.....J...I...E.....*
09F00	2889E77F	2F84BD20	005075F4	6606618E	B9209F20	618A6292	67A28100	B800981E	*.X.....4.....*
09F20	6602A808	2889BD20	005075F4	6316641A	651E6722	600A6292	649A659E	6606389A	*.....4.....*
09F40	3D1CB503	880EB508	8802A81A	3D1DB548	8802A812	BA213194	2288880A	618EB900	*.....*
09F60	962C0042	A85AC982	A80614AC	4D2DFDC4	F102984F	E986D00A	F5089838	3401882C	*.....I.....D1..Z...5.....*
09F80	44984498	32884388	2D0DCD10	618EB920	9F9A618A	8120B800	A49AA80E	618EB920	*.....*
09FA0	9FAA618A	8160B800	A49A2388	308130A1	55483D83	618EB920	9FC0618A	B800ABCC	*.....*
09FC0	66026212	641A651E	600A3401	44984498	B8009FE2	34014498	44988806	45014081	*.....S.....*
09FE0	3581178C	C918C985	74824488	A8149702	7482A702	44888814	97021784	B84014C4	*...I.I.....D*
0A000	C98FBF2C	01008802	86027794	B840618E	649A659E	67A26606	045D4498	44984488	*I.....*
0A020	9862BB20	A0C83081	618EB920	A038618A	80018184	B800952A	610E3306	348833F8	*.....H.....8*
0A040	33F803DD	055F9501	05DF77A8	0E0C4E84	45889508	4586A601	880E5388	93285382	*.8.....*
0A060	5F809701	3588BE8D	50825F80	4E04BE80	4E844306	35024586	6602610E	641A651E	*.....*
0A080	6722600A	4E048802	A81D4301	88083398	33983488	A813BB20	A0C83081	618EB920	*.....H.....*
0A0A0	A0AC618A	80018184	B800952A	610E3306	618D4101	318133F8	33F84381	33983398	*.....8.8.....*
0A0C0	610D3488	A883819C	00800000	0001B54C	34074498	4498C90A	C98414C4	B84014B4	*.....I.I.D...*
0A0E0	B840178C	7482B840	659E6606	BD200010	75E43407	44984498	88164804	E07F4884	*.....U.....*
0A100	45073587	8802A808	318811F8	11F82183	BD200010	75F46602	610E651E	600A649A	*.....8.8.....4.....*
0A120	659E67A2	BF200030	77E42503	88143401	881CC91E	55985598	54872401	34812081	*.....U.....I.....*
0A140	208377F4	610E641A	651E6722	600A3583	A8192501	88103403	880C4498	44984587	*...4.....*
0A160	24033483	A829811C	B80097A6	2805E0F8	B0A89802	A808B920	0102B800	97B0BF20	*.....8.....*
0A180	005077E4	2804F0A0	982EC990	075B7798	779827B8	880CD090	2884A80C	F0108815	*...U..0..I.....0...*
0A1A0	A816D030	2884A8BA	2809D80A	C886C802	A886A85A	A82EA802	A8A8014D	11981198	*.....Q.H.H.....*
0A1C0	88162087	11F811F8	218F1198	119822F8	22F81287	02CDA88A	2087208F	22F822F8	*.....8.8.....8.8.....8.8*
0A1E0	02CFA811	01451198	11988816	208711F8	11F8218F	11981198	22F822F8	128702C5	*.....8.8.....8.8.....E*
0A200	A8602087	208F22F8	22F802C7	A8110149	11981198	88162087	11F811F8	218F1198	*.....8.8.G.....8.8.....*
0A220	119822F8	22F81287	02C9A836	2087208F	22F822F8	02CBA811	01511198	11988816	*...8.8...I.....8.8.....*
0A240	208711F8	11F8218F	11981198	22F922F8	128702D1	A80C2087	208F22F8	22F802D3	*...8.8.....8.8...J.....8.8.L*
0A260	A811BF20	005077F4	610E6212	6722600A	E9B4F984	2782A80C	BB200008	36982682	*.....4.....Z.9.....*
0A280	36A86786	2301BA20	B84023B0	8808025B	22982298	A812B920	0105B820	97B0B920	*.....*
0A2A0	0104B820	97B0A86E	F982A866	6788F88E	F814E89A	E820D8A6	D82CC8B2	A836139C	*.....9.....8.8.Y.Y.Q.Q.H.....*
0A2C0	738A9704	A81713AC	738A9704	A81D13BC	738A9704	A82313CC	738A9704	A82913DC	*.....*
0A2E0	738A9704	A82F13EC	738A9704	A83513FC	738A9704	E9866306	738AA816	230D3398	*.....Z.....*
0A300	33986382	88043686	33A86386	66F866F8	268D1484	B8402301	BA20B840	23B08802	*.....8.8.....*
0A320	A885025B	22982298	BB20A332	638AB800	A00E3688	678A6888	67889704	A891C990	*.....I...*
0A340	45018808	B9200301	B80097B0	35014581	44F844F8	3481600A	66066396	05088802	*.....8.8.....*
0A360	A808B920	0319B800	97B0C982	A804F099	CF0EBC20	003074E4	A85EBC20	003074F4	*.....I.....U.....4**
0A380	E9926216	33A82389	E17F2388	5008208B	6602600A	BF20007C	77E40E09	D6020E89	*Z.....U..O...*

0A3A0	BF200070	77F4BF20	A3B8BA20	01F42782	67885208	1308B840	76883188	76D4BF20	*.....4.....4.....M..*
0A3C0	007077E4	0E09E6FD	0E89BF20	007C77F4	BF2001F8	2782A87D	03468863	074688A6	*...U..W.....4...8.....*
0A3E0	70837488	77017798	779807C6	0755A701	07D58838	B89C621F	40815008	D180BC20	*.....F.....N.....J...*
0A400	003074F4	238A2E05	D6802E85	23886602	600ABA20	003072F4	72E4B002	98040F09	*...4....O.....U.....*
0A420	CF2D0246	22F822F8	4281A851	0F09CF56	D7800F89	075707D5	618E4188	BC200030	*.....8.8.....P.....N.....*
0A440	74F431B8	88303788	77017798	77983081	6292BA20	A45C628A	B800048A	BC200030	*.4.....P.....N.....*
0A460	74E41488	014611F8	11F84181	610E6212	73889001	A8833081	B920A482	618AB800	*.U.....8.8.....P.....N.....*
0A480	048A610E	A92B6216	618EB920	A496618A	8120B800	A49A6296	A9216292	6396649A	*.....9.....H.....P.....N.....*
0A4A0	659E67A2	6606F982	A8043804	C82855A8	3788A808	47018838	77987798	045647B8	*.....9.....H.....P.....N.....*
0A4C0	98200452	47B89804	8802A81C	7488BD9D	B9200304	A816B920	0306A810	B9200319	*.....9.....H.....P.....N.....*
0A4E0	A80AB920	030FA804	B9200315	B80097B0	0809F836	E802A832	BF200030	77E40809	*.....9.....H.....P.....N.....*
0A500	E802A826	E0F70889	77F43788	37017798	77983081	30839501	618EB920	A524618A	*.Y....7...4.....P.....N.....*
0A520	B800048A	610E7388	8836BF20	003077E4	075557A0	07D50746	880C0772	33F833F8	*.....U.....N.....8.8..*
0A540	738104F2	A80403C6	04F2BF20	003077F4	0809F804	C81AA808	BF200008	77F477D4	*...2...F.2....4...8.H.....4.M*
0A560	6602610E	62126316	641A651E	6722600A	025ABC20	003074E4	0809C802	A80C2203	*.....U.....H.....P.....N.....*
0A580	0555A501	52B09806	880474F4	A82F0257	25A805D5	E07F0889	03463701	77987798	*.....4.....N.....P.....N.....*
0A5A0	07C674F4	30813083	B920A560	618AB800	0496618E	649A659E	67A26606	35883800	*.F.4.....P.....N.....P.....N.....*
0A5C0	8804A528	B885A508	54884506	35824386	49049101	4984080C	0138984A	055FBF20	*.....P.....N.....P.....N.....*
0A5E0	000157B8	8840BD80	05DF075D	77987798	47B8883E	75018844	55985598	45B88804	*.....P.....N.....P.....N.....*
0A600	5788A811	618E7501	881C5598	55985510	7181610E	50814388	618EB920	A626618A	*.....P.....N.....P.....N.....*
0A620	8120B800	A49A6602	610E641A	651E6722	600A7501	05DD7081	7388A825	B9200120	*.....P.....N.....P.....N.....*
0A640	B80097B0	2C05E4F0	B4A09802	A808B920	0218B820	97B02301	33983398	BD200100	*.....U0.....P.....N.....P.....N.....*
0A660	88028402	7594C984	13B4B840	7382B840	BC200070	74E40805	F0429822	024F02DB	*.....I.....U..0.....P.....N.....*
0A680	98200247	02DB983A	024B02DB	98520909	C9060253	02DB9866	BB200004	73E474F4	*.....I.....U..0.....P.....N.....*
0A6A0	R8402298	2298D080	23073398	3398880C	2087308F	33F833F8	03CFA85F	00CD00CF	*.....I.....U..0.....P.....N.....*
0A6C0	A8582298	22982307	33983398	880C2087	308F33F8	33F803C7	A84000C5	00C7A83A	*.....8.8.....G...E.G..*
0A6E0	22982298	23073398	3398880C	2087308F	33F833F8	03CBA822	00C900CB	A81C2298	*.....8.8.....I.....P.....N.....*
0A700	22982307	33983398	880C2087	308F33F8	33F803D3	A80400D1	00D3D004	E0FB0885	*.....8.8.L...J.L...*
0A720	2904E17F	298474F4	230A1384	12A433A8	2305E307	D3087334	BB200004	73F4B840	*.....4.....T.L.....4...*
0A740	B923DF31	BB2005A8	35888605	95243182	35863188	5388BE8D	5182B920	A774618A	*.....P.....N.....P.....N.....*
0A760	B923DF30	51860356	318811F8	11F8318D	B8009348	BF00943A	B8401748	80200000	*.....8.8.....P.....N.....*
0A780	A8C026D6	2805E0F0	B0A09860	3805E0F0	B0A0980C	3804C84E	D0803884	E0C3A812	*...O...0.....0.....H.....C..*
0A7A0	3804C842	F9881708	E73CE0C3	7058D080	3884F906	BF200010	77E42701	8852E03C	*..H.9...X..C.....9.....U...*
0A7C0	885C659F	77987798	7C04E43C	04389832	649A7488	77078842	77987798	7C04E43C	*.....U.....P.....N.....*
0A7E0	0438980C	A8158101	B80097A6	8117A809	77F877F8	378733F8	33F94387	641A651F	*.....8.8.....8.8.....8.8.....*
0A800	A82C77F8	77F83787	33F833F8	2381A813	308733F8	33F82381	A812641A	651E3087	*...8.8...8.8.....8.8.....*
0A820	27037798	779833F8	33F87387	2383F906	BF200010	77F4C98A	610E6212	63166722	*.....8.8.....9.....4I.....*
0A840	600A6606	618EB920	A856618A	629267A2	8140B800	981E6602	A823D9A8	4804C858	*.....I.....8.8.....R...H..*
0A860	D0804884	C9AE3707	885644F8	44F83487	44984498	4787D994	610E6212	6316641A	*.....I.....8.8.....R.....*
0A880	6722600A	BF200010	77E4A831	BF200010	77F4A81D	2805E0F0	B0A0982C	2701980C	*.....U.....4.....0.....*
0A8A0	408744F8	44F82481	2483A808	478744F8	44F82481	D9ABA841	B9200202	B80097B0	*...8.8.....8.8...R.....*
0A8C0	B9200205	B80097B0	B9200219	B80097B0	2E05E6F0	B6A09802	A808B920	0216B820	*.....W0.....P.....N.....*
0A8E0	97B0C9A0	23018814	33983398	3F04E77F	3F843707	27819802	20833087	C98E610E	*..I.....X.....I.....*
0A900	6722600A	BF200070	77E4A829	BF200070	77F4A817	C9824085	0C07A415	0428982A	*.....U.....4...I.....*
0A920	55C80508	95034589	950A840A	63833588	950C4788	970C900F	51107130	B8874109	*.H.....P.....N.....P.....N.....*
0A940	4197610E	651E6722	600AB920	010DB800	97B02388	0E1487FF	72E06308	880433F0	*.....0.....P.....N.....*
0A960	FB85BF21	7A402718	7B008200	33983398	BF217A50	37987502	7801883C	F0408810	*.....0.....P.....N.....*
0A980	F1048806	7301E3F0	1394C9A0	7388A822	D82E5701	27B09820	95042298	22982598	*1....TO..I....Q.....*
0A9A0	F1048806	5301E3F0	1394C984	5388A802	5302BF20	02004088	BF200100	55C84088	*1....TO..I.....H...*
0A9C0	57039701	27A89837	88132288	8837F999	A83B618E	6396659E	67A23588	950C4788	*.....9.....P.....N.....*
0A9E0	970C8016	51107130	B8874388	87003F83	871E3F82	610E6316	651E6722	600A0C14	*.....P.....N.....P.....N.....*
0AA00	85FF52E0	882AED21	7A605703	27B09820	BF200200	95042298	22982598	F1048804	*.....1.....P.....N.....*

0AA20	58001194	C9845388	A8025302	77944088	BF200100	55B8A80D	618A6292	649A67A2	*.....I.....*
0AA40	66063488	42018808	22982298	2488A80D	44F844F8	348DA86A	618A6606	34884103	*.....8.8.....*
0AA60	C00A9824	0C110D07	11A84703	76186538	98167118	42018814	22982298	2488BC97	*.....*
0AA80	8104A818	8106A814	8108A810	44F844F8	348D3517	950A15B0	8808811F	8000B800	*.....8.8.....*
0AAA0	97B03189	31110914	880411F8	F985BF21	7A400718	11C87900	11981198	BF217A50	*.....89.....H.....*
0AAC0	17980809	D802A812	618EB920	AAD6618A	8121B800	A49A11C8	A8B07101	8894F140	*.....Q.....O.....H.....1*
0AAE0	98967202	35110E14	6468D358	270157B8	98805598	55982598	5206390E	E1F0B110	*.....R.....0.....*
0AB00	8802A828	5904E912	D908B100	8802A862	A806B920	003C1298	A8103513	08140468	*.....Z.R.....*
0AB20	55808806	B9200010	1298A802	A898390E	F988B900	96320042	A806B900	96320062	*.....9.....*
0AB40	11C8A846	27039701	57B89861	5588885B	390EE1F0	B1008802	A814B920	001071E4	*.....H.....0.....U*
0AB60	B90C9C92	B9200010	71F411A8	A802A856	A818B920	0001A812	F8840D09	DD30E818	*.....4.....8.....Y.*
0AB80	72028813	B90098CC	00406602	6212641A	651E6722	1188600A	7402882B	6606B920	*.....*
0ABA0	ABA8618A	B8009348	660211C8	A8253D18	E560C520	98063D1B	B507883F	85023D8D	*.....H...V.E.....*
0ABC0	72028853	A899E920	0006A843	618A0D09	DD02A81A	6606618E	B920ABE4	618A8120	*.....U.....*
0ABE0	B800A49A	BF200010	77F46602	600A55C8	0D113488	80104882	4803900E	980E4883	*.....4...H.....*
0AC00	22A8BD8C	8104A834	8106A830	8108A82C	77A84F03	49021718	11A80907	71B09815	*.....*
0AC20	49021728	72904701	88087798	77987488	A8313121	910E21B0	8808811F	8000B800	*.....*
0AC40	97B044F8	44F8348D	32893804	C847D040	3884B900	E610B800	9348F04	CF168510	*.....8.8...H...W.....*
0AC60	75E42C21	CC942C1E	DC04C994	A804C982	A80EA806	8106A83D	408875F4	81024088	*.U.....I...I.....4..*
0AC80	D7803F84	30872513	98102C21	E47F2CA1	33F833F8	23912393	A80C33F8	33F82393	*P.....U...8.8...8.8.*
0ACA0	55985598	53876292	271A7226	27538520	75E4CF84	CE02A832	F606882E	FF2CCFAA	*.....U.....6.....*
0ACC0	253B9826	CF82A806	2223253B	981AB920	258021CD	B92000FF	21D5B920	009821B9	*.....N.....*
0ACE0	4788BC00	1A887488	A8008530	75F46212	11C84088	24882721	C9842311	A8022391	*.....4...H...I.....*
0AD00	F982A804	F902A80A	73B09806	E17F1194	B84055A8	4F02F984	4D03A806	0D077528	*9...9.....9.....*
0AD20	984A53B0	980C4401	88344498	449853A0	A8216628	97047498	3498F984	4800A814	*.....9.....*
0AD40	4880F910	74A834A8	27219701	27A14F03	97014F83	27119701	2791D180	A851F988	*.9.....J...9.*
0AD60	B9200405	B80097B0	F90BA861	B9200406	B80097B0	50000000	00000000	D6202000	*.....9.....0...*
0AD80	C3E7C1E2	E4D7F27B	30DC5E2E	CECAF084	87FFA844	592ED98C	552D05BF	099E0741	*CXASUP2.....R.....*
0ADA0	07BDAABC	053FA810	091EBE20	0020053D	081FA804	081F5529	572F6748	CF02A824	*.....*
0ADC0	E6805EAF	572F6308	E31EF902	93208212	3701CF4B	BE82A816	57ABB8A7	552905BD	*W.....T.9.....*
0ADE0	099EB840	572BEE91	CF02A802	CF95F73F	880CA701	F91F8633	A823B800	AFPECF07	*.....7...9.....*
0AE00	5E2ECEB8	CF82A834	BF200100	F904BF20	150057AB	76E4572F	6748CF1C	5727E7F1	*.....9.....U.....X1*
0AE20	54354B01	37587401	54A5DF88	572FD6C0	76485EAE	76F4A85F	76F4A87D	BF2000FF	*.....O...4...4.....*
0AE40	57AB76E4	572F6748	CF135231	4204573B	8814572F	D6807648	5EAE5727	E7C17721	*.....U.....O.....XA.*
0AE60	57A576F4	A88D5E53	F6018826	5E01E6FD	C630981E	5739881A	574A8808	77F877F8	*..4...6...W.F.....8.8*
0AE80	578F50CA	5E53FE0A	5739B780	8804D701	57B9475C	67087480	5E41EA2	E7F0B730	*.....P.....X0.*
0AEA0	8806B7F0	9816A81C	BF200200	47644380	A2F09802	A80E434C	DA9AA8B0	47544380	*..0.....0.....*
0AEC0	A2F0987C	8303A8AC	5B49DB93	5E41EE04	5E50EE04	8307A89C	4380E20F	5B53B209	*.0.....S.....*
0AEE0	881CB20A	8818B208	8866C20D	981B5A53	FA82A821	435CF2F0	888C879D	A82A83F0	*.....B.....20...0.*
0AF00	5F33CF31	5E398780	57B35BB9	5727E7C1	7272D701	57A50E22	5F2F6748	5FAE5735	*.....XA.P.....*
0AF20	7F0C5353	FB82FA90	434CD2F0	4344A800	4754A800	76F4A95F	5E3DD680	5EBDA819	*.....K0...4...O...*
0AF40	434CDAE6	4380E20F	2308C208	981E8307	5727E7C1	7272D701	532573B0	888B57A5	*.....S...B...XA.P...*
0AF60	87005FB3	5F395FB2	A855A8A5	33485E2E	CE828301	5727E7C1	727257A5	5E41EE86	*.....*
0AF80	474CD6F0	47440739	05B99808	05B776F4	70C4A804	75AD76F4	5F53CF04	5F475PBC	*..00...4.D...4...*
0AFA0	5739FB92	98028780	57BB5E53	CE046648	5EC750B9	A9DDFB1C	87E857BB	47806708	*.....G...Y.....*
0AFC0	E7F0B730	881DE60F	B6088802	A82587F2	5FBBA80A	EB8487EA	A83387F0	57BB5E49	*X0...W...2...0...*
0AFE0	CE02A83B	5E41EEBF	76E45231	4204870F	475450D5	76F4BF20	4D9657CD	A85576E4	*.....U.....N.4...U*
0B000	572F6748	CF4A5231	4204A800	435C2308	3480A2F0	982A8303	573B9834	B303880E	*.....0.....*
0B020	5F41EF8A	4780E7F0	B730880C	47545727	E7C17721	57A5A8C5	BF200200	4764A813	*.....X0...XA...E...*
0B040	434CDA94	BE201200	6701F902	672157AB	BE200020	76F4AA7F	5B49DB99	8307A849	*.....9...4.....*
0B060	BF202CD8	71019101	7181BF20	2CEA7181	0703880C	BF86BF00	943A77A8	0783A836	*..Q.....*
0B080	07078832	BFAEBA21	9C602F39	F7F09822	D7602FB9	87022FB0	BA2197E4	BE2005A8	*.....70..P.....U...*

0B0A0	618EB920	B0B2618A	629267A2	8100B800	981E77A8	0787081D	B886800A	089DA804	* .....	*
0B0C0	089DA872	01639101	01E30367	31B89866	BE2005A8	024A2301	88503398	3398618E	* .....	*T.....*
0B0E0	B920B0EF	618A67A2	8100B800	A8D03D05	DD2A618E	B920B102	618A6396	9304B800	* .....	*
0B100	982E0163	23018822	33983398	370971B8	88359804	8802A83B	07E7A81A	350B5598	* .....	*X.....*
0B120	5598BF20	B132678A	5098B920	050FB800	97B0024A	A835BC20	17C44388	93248520	* .....	*D.....*
0B140	75E4412F	8832B8A2	910149AF	4840C80A	75F44227	B9007CF6	A82039AF	75F44227	* .....	*U.....H.4.6.4.*
0B160	B9007CF6	BC2017E8	A8193C2E	C4018829	48AE9101	49AF39AF	75F40A31	0AA60A32	* .....	*6...Y...D...4...*
0B180	0AA70A33	0AAD0A34	0AAE0A35	0AAF8204	B9200680	91371B00	B3FF8804	83801B80	* .....	*
0B1A0	9101BA8F	BC2078B8	4A08CA26	D280BE20	002076E4	4A8876F4	BA2197B4	BE2005A8	* .....	*K...U...4...*
0B1C0	618EB920	B1D2618A	629267A2	8100B800	981EA800	BD200040	7574081C	B8CCBE20	* .....	*K.....*
0B1E0	79B26914	8840800A	089C6113	9101B1FA	983081F0	9001B0F6	982880F0	6B109301	* .....	*...0...6...0...6...0...*
0B200	B3FA981C	83F06A0F	9201B2F6	981082F0	650D9501	B5FA8816	B5F48818	658D6A8F	* .....	*...0...6...0...4...*
0B220	6B906193	A8548001	A84E089C	A84C85F0	9401A819	B4F2981D	1580670B	9701B7FA	* .....	*...0...2...*
0B240	981A87F0	9601B6FA	981286F0	678B6F09	9701B7FA	980287FC	6F89A802	678B6F04	* .....	*...0...0...0...0...*
0B260	9701B7FA	980E87F0	6E039601	B6FA9802	86F06E83	6F84A85D	089CA800	BC207982	* .....	*...0...0...0...*
0B280	4E0C881E	FE84B618	98108600	4E8C408A	408E8603	4E864E87	A808BD20	78946518	* .....	*
0B2A0	50028402	4F06885E	410AFF9C	B7088828	B706883E	B7028834	B704883A	8600BC84	* .....	*
0B2C0	4E87A844	4E86A834	86004E86	C701A825	86004E87	C701A82D	BB20010C	E070E1F0	* .....	*...G...G...0...*
0B2E0	13D8B900	B2E61385	11C8A800	BC8C7124	A8161102	A80B1101	A80F7114	4F078808	* .....	*.Q...W...H.....*
0B300	410EFFB5	A85BBC8D	4E00FED2	8429712C	E018EC8A	430513C0	8806C430	11C04185	* .....	*...K...D...*
0B320	711CEC90	430213C8	880CDC8C	C43011C0	4185A804	4182DC1E	BA2197A4	BE2005A8	* .....	*...H...D...*
0B340	618EB920	B352618A	629267A2	8100B800	981ED603	4E80FC86	BF202000	7774B840	* .....	*...O...*
0B360	BC207982	4E00FE11	8416A85F	BF200020	43134115	882A4193	4095BF20	60003288	* .....	*
0B380	76E4881E	4204A800	47344093	4195A84C	43934195	A8461288	4204C6C0	4734A83C	* .....	*.U.....F...*
0B3A0	328876E4	4204A800	414C435C	456C76F4	2608E6F0	B6308802	A80ED419	CB02C401	* .....	*.U.....4.WO...M..D.*
0B3C0	DB02C408	EB82C410	4308E3FD	4C088806	31C013C0	31C07114	732476E4	BA2003FE	* .....	*.D...D...T...U...*
0B3E0	4204A800	76F4A8E1	779C71EC	736C2008	11808804	B8000028	CF02B840	B8000066	* .....	*...4...*
0B400	2388884E	A3028514	2D808513	2D848501	2D86756C	2589754C	358EF7F0	98040542	* .....	*...70...*
0B420	A814CF10	CF8ADF04	158CA80A	150CA806	058CA802	05663592	279375EC	25952793	* .....	*
0B440	75EC2595	F918B920	050C2183	0827B894	B9200501	22888802	21830FA8	AB31B920	* .....	*...9...*
0B460	050DA81B	08A7CF02	B840B800	0066BC20	78B84201	2B01CB4A	2589951A	FBB44581	* .....	*
0B480	5A078808	22182218	22182218	2A87D301	2B814B08	E37F4B88	20832280	6088BC20	* .....	*...L...T...*
0B4A0	78B84205	2B01CB20	2588951A	FB844585	A8335B07	E30FB30F	88029301	5B8722C0	* .....	*...T...*
0B4C0	6088BD20	7910A84D	BD2078C2	A823F7F0	9806B920	000EABAB	BB200009	C98AD906	* .....	*...B...70...I.R.*
0B4E0	D982C319	C308C303	D922E908	F08699F2	D9AEA810	BE00B554	A808BE00	B5F0B920	* .....	*R.C.C.C.R.Z.0..2R...O..*
0B500	001BAA2C	31880F30	0FA8ABDF	DF82A814	158CA502	8804D995	A80AB920	000DA81B	* .....	*...R...*
0B520	DF93A821	BE00B554	880C8420	BE00B5F0	11888818	A8310C2E	BC8EB920	B2E831A8	* .....	*...0...Y...*
0B540	8819B920	001AA81F	0CAEA823	BE200004	7674A96D	CF1ECFAA	DF0CDFB4	33C8B920	* .....	*...H...*
0B560	000E1180	6088130C	BC00B5A2	88026088	13046088	0366BC00	B5A28802	608803E6	* .....	*...W...*
0B580	6088038C	BC00B5A2	88026088	03846088	138CBC00	B5A28802	6088B920	000A1180	* .....	*
0B5A0	6088028A	33888806	026223B8	9806B920	0020A822	A30223B8	9802A80F	3501E488	* .....	*...U...*
0B5C0	E50F11C8	BA200000	52B0880A	BA200004	52B08802	A8103501	F470E5F0	BA2060D0	* .....	*V...H...U.VO...*
0B5E0	52B08802	A804B920	000A020A	11884088	22888824	85122D80	85122D84	2C86BD20	* .....	*
0B600	002051B8	88143501	25892793	2788A702	754C758E	739221B3	608855C0	A817BE20	* .....	*
0B620	C2CC737C	F808F702	9912E89A	A836F308	8808FF06	BD200008	A804BD20	000005FF	* .....	*B...8.7...Y...3...*
0B640	BD200000	A812DB06	BD200008	A804BD20	000005FF	BD200008	5574BF00	B6A0556C	* .....	*
0B660	F4E08806	B9200503	A8C6F41E	980AF50C	98006B920	050AA8B8	0A2DBA86	B9200507	* .....	*4...F4...5...*
0B680	A8AE0AAD	BD20940E	5588880E	BF20B694	678A5088	057F5574	AAB3B920	0521A890	* .....	*
0B6A0	2288883C	85182D80	85102D84	8504E882	85022D86	536C0385	2391550C	2589551C	* .....	*...Y...*
0B6C0	258B552C	258D555C	258F558C	2593DA04	55C8A802	559C2595	55A82597	55CC2599	* .....	*...H...*
0B6E0	7088737C	F806FF34	E89AA889	F3088808	FF06BD20	0008A804	BD200000	05FFBD20	* .....	*...8...Y...3...*
0B700	0000A812	DB06BD20	0C08A804	BD200000	05FFBD20	00085574	556CDC02	AA2FBF00	* .....	*

OB720	B6A0BB20	0506D984	3188A804	A301A809	0F300FA8	22898802	2183AE0F	22888826	*.....R.....*
OB740	85122D80	85102D84	85842D86	55A82589	55A8258B	55A8258D	55A8258F	55A82591	*.....*
OB760	657C0585	2593F080	88CC677C	BD200001	57E007FF	BF200400	6774756C	EC8CBF20	*.....0.....*
OB780	05006774	756CEC82	A927637C	F340992D	DB06F390	984CA935	BF200000	7788887A	*.....3.....3.....*
OB7A0	0B30CB06	CB88DB0A	A9470366	A806038C	A802130C	A3027503	35B89808	750153B8	*.....*
OB7C0	9802A840	0C2DBC86	B9200507	A89F0CAD	BD200020	6574BE00	B554884E	B920050A	*.....*
OB7E0	A8B3D720	6774653C	776CF604	98064238	8828A810	BD200000	55888963	BF20B804	*..P.....6.....*
OB800	678A5088	BD200000	55888973	BF20B814	678A5088	11889EEB	A810BD20	00005588	*.....*
OB820	8989BF20	B82A678A	5088077F	7608E700	D6046774	AC4F637C	F34099D9	BF200020	*.....X.O.....3.R.....*
OB840	6774653C	776CF604	99E74238	8802A9ED	DB18F390	9802A9F5	BD200000	558889C7	*.....6.X.....3.....5.....G*
OB860	BF20B868	678A5088	AC830C2D	BC86B920	0507A945	0CADBE20	00206674	BE00B554	*.....*
OB880	8C9BB920	050AA959	450C05F7	BB200680	C89CD822	D8A8E82E	BB20050B	A92A4504	*.....7.....H.Q.Q.Y.....*
OB8A0	3488EE00	B98A4D00	B5FF8876	A8209337	BD200840	A8199338	BD200940	A8219339	*.....*
OB8C0	BD200A40	A829933A	BD200B40	A831453C	FCB8DD36	CD0CFC08	CD88DD86	F4FC9872	*.....4.....*
OB8E0	A8460C2F	BC82A826	0CAFBD20	40044534	A812BD20	80024534	BD204004	453485FF	*.....*
OB900	4D806088	05774504	AD230C2F	BC86BE00	B8F2A811	0CAF0492	BE00B554	88350412	*.....2.....*
OB920	A815B920	0504A9F9	55C84D00	B5008814	55984D80	5598D480	4534BE20	C1F865C8	*.....9.H.....M.....A8.H*
OB940	4534A85B	0C2FBC82	A8590CAF	44488502	A8230C2F	BC82A814	0CAFBD20	40044534	*.....*
OB960	8410BC83	453CF4FC	9819A869	453C4508	44485598	D4804534	BD204004	45348410	*.....4.....M.....*
OB980	EC83453C	F4FC8885	A87D2288	88388512	2D808511	2D842886	453C2589	754C2388	*.....4.....*
OB9A0	A302358E	759C2593	DD88DD0A	CD8CCD0E	A810158C	A80E150C	A80A058C	A8060542	*.....*
OB9C0	A80255C8	35926088	3188AA9D	BD20786C	5319F3F0	8832D70F	7368882C	51179101	*..H.....30..P.....*
OB9E0	51975113	54152118	41B09802	51115193	11981198	FB9A5202	24011481	24031483	*.....*
OBA00	33789504	9104BA95	B9200008	7174AE29	54401081	1282A819	BA207982	2305FB2C	*.....*
OBA20	888E2111	88061198	11981088	DAA8EA2A	CBACDB1A	DB9C208A	208E8303	2B862B87	*.....*
OBA40	83FD2B80	B8403540	83FEA80B	A860B800	C638P801	266CB800	C5CCB800	C5B833A8	*.....F.....E.....E.....*
OBA60	2B03B303	9802A833	33983398	3098B800	BA7AB801	2598B800	BA9C2302	8802A84B	*.....*
OBA80	BA219C60	2B39F3F0	9810D360	2BB98301	2EBDBA21	97E4B840	1D00A826	2B020A36	*.....30..L.....U.....*
OBAA0	0BB6238A	208E8303	2B862B87	A86F8300	2B8C2091	2087BD20	786C5B19	E30F5B99	*.....T.....*
OBAC0	A883BA20	7982A889	00000000	27B3D90C	00000000	00000000	00000000	00000000	*.....R.....*
OBAE0	00000000	00000000	21270000	2539D508	D90CE1FE	21A7E1C0	3770FFFE	EF000000	*.....N.R.....*
OBBO0	00000000	0002BE20	BAC86B00	CB267201	2580FDA0	2853E81E	F882A81A	25195598	*.....H.....Y.8.....*
OBBO0	55985A12	CA0E2E49	EE848620	6EBC8604	C892A816	A8722519	55985598	5A28CA68	*.....H.....*
OBBO0	6648A806	D608D802	22232335	E808877E	F88687FF	A80C3F16	6D3CF010	8802D540	*.....O.Q.....Y..8.....O..N*
OBBO0	6DBC2D49	DD02A802	D610CD82	A80CD620	2588A502	5501E5FE	65A12D51	6D9FE5F0	*.....O.....O.....V.....V0*
OBBO0	2C506583	25316585	6587EE02	A806221F	25316587	D6806781	BF207894	BD20BC34	*.....O.....*
OBBA0	758ABF23	FFFFA802	77A8BA20	79828300	2B8C278A	278E8303	2B862B87	A97FA819	*.....*
OBBC0	0000BCB6	0000BCEE	0000BCF2	0000BD14	0000ED26	0000BD2C	0000BEA8	0000BF23	*.....2.....*
OBBE0	0000BF4A	0000C021	0000C02E	0000C04F	0000C059	0000BBA9	0000C072	0000C18E	*.....A.....*
OBC00	0000C086	0000C0DB	0000C0E9	0000C153	0000C159	0000C15D	0000C161	0000C165	*.....Z.A..A..A..A..A..*
OBC20	0000C207	0000C20B	0000C20E	0000C20E	0000C29A	BE20BAC8	852075E4	62054204	*..B..B..B..B..B..H..U..*
OBC40	BC207982	42958704	4F8C2701	FFD06D00	FD2AD502	6D80ED02	A80E6207	2701BD20	*.....N.....*
OBC60	17CC75A5	62052701	BD2017D0	75A5B920	C2C661A6	61AAB920	C10261AE	4702B920	*.....BF.....A.....*
OBC80	BAC06118	61186118	61181002	A87EBE20	BAC86D00	CD02A8F1	B65D9804	A8F7A86C	*.....H.....1.....7..*
OBCA0	B920BAC0	61186118	61186118	1302FBA7	82082A8C	AA776D02	6B034354	B900BCDC	*.....*
OBCC0	BF20C2C6	67A667AA	6E00EE02	A83E6207	42046B03	4354B900	BCDCA830	6C3CDC04	*..BF.....*
OBCEO	8400A802	84804564	D3014354	10884D03	A83BBBD20	00034564	6F03D708	4754D2F1	*.....L.....P.....K1*
OBD00	6B01BF20	C2C6E2FB	434467A6	852075F4	A800B840	4B03BF20	BD006D00	ED97BF20	*...BFS.....4.....*
OBD20	BCFEE2FE	A81F4B03	820GA82B	4B038200	BF00BD08	6D00ED02	A81AE2FB	D2014344	*..S.....S.K..*
OBD40	6D03D50D	4554BD20	C2C665A6	62074204	4295A810	BF20BD64	6D39FD84	BF20BD96	*..N.....BF.....*
OBD60	6D1FAD5E	BF20BD76	6D00ED04	67A6A802	67AA5858	AD4EBF20	BD866900	E90467A6	*.....Z.....*
OBD80	AD4667AA	AD42E2FB	BF20BD96	6900E904	67A6A802	67AA11A8	6199619B	699E61BB	*.....S.....Z.....*

OBDA0	61A36D39	FD06BF23	FFFF67A3	BF20BE5A	6D00ED04	67A6A802	67AAB3FF	880ABD20	*.....*
OBDC0	EAD01518	5B80699E	612373B4	6D39FD04	FDC0A854	71BCB303	8812B301	880AB302	*.....*
OBDE0	8806B332	8842A83E	60A3A83C	BF20BDF4	67A6A832	6BBBFF20	BDFE67A6	A82A6BBA	*.....*
OBEE0	6123673B	17B08B6C	B920C2C6	61A661AA	AA6B71CC	EA84D204	A80C6123	BF20F0B8	*.....*
OBEO0	17B08B50	A81F61A3	6731DD82	A812683B	68BA6BBB	60388802	AC8E7338	8B36AC88	*.....*
OBFA0	36388B30	37388B2C	67333638	8B263738	8B166F34	37388B16	AC6E691E	9101D982	*.....*
OBFB0	A8A96B97	BF20BE74	6D00ED04	67A6A8A9	67AAA8AD	6D03D507	B3FF8812	61199101	*.....*
OBFC0	6199B300	88BF611B	9101619B	A8C76900	E982A80F	417CF0E0	9806EA84	CA02A81B	*.....*
OBFD0	611D9101	619DA823	FF86BF20	C102A804	BF20C12A	67AE6D00	EDE6DD82	A8206B03	*.....*
OBFE0	43546D02	B900BCDC	BF00BD0A	434455A8	45646D03	D5034554	BF00BD0A	43446D03	*.....*
OBFF0	45546D02	D5206B03	B900BCDC	BF00BD0A	434411A8	41646D03	D5024554	BF00BD0A	*.....*
OBGA0	6D03CD08	D507BF20	BD96ABB6	6D03D505	BF00C2C2	6F017338	88156D03	D505ABA4	*.....*
OBGB0	AB70E8F5	691EBD20	BAD01518	5F80B70F	880CB870F	5F819101	B10F8808	A80211A8	*.....*
OBGC0	699EABA3	11A8699E	ABA3DF86	BF20C102	A804BF20	C12A67AE	6D00ED3D	DD02AA55	*.....*
OBGD0	2101114D	BF204C04	17C89A61	62214204	853F4554	8100699E	BC207982	4295BF00	*.....*
OBGE0	BD0A6221	43448402	45648530	D5044554	62054204	6D034554	6D02D520	6B03B900	*.....*
OBGF0	BCDCBF00	BF844344	62214204	80004164	BF20BF88	67A6B840	6221455C	FD84FD4E	*.....*
OBGG0	ED084344	85304554	AABF691E	BD20BAD0	15185B00	B30F881E	9101699E	BC207982	*.....*
OBGH0	4F03E70F	7148880C	43448738	47548000	4164A800	B8406221	455CFD18	FDBD4344	*.....*
OBGI0	BF20BFF6	67A68330	D3054354	A821E30F	C30C9853	43448330	43546207	4204A931	*.....*
OBGJ0	6D02E5FB	B7FF9802	D5046D82	AC8D6D00	ED02A806	62074204	42956F03	D7074754	*.....*
OBGK0	BF20BD96	ED0467A6	AB3F67AA	AB43E70F	6E037658	6E9FACB7	85002D8C	B73E9802	*.....*
OBGL0	ACBBBD20	BAC87518	258A9502	258E8304	ACB84B03	8201AB77	85006C00	EC02A82C	*.....*
OBGM0	62074204	A810FF91	6D00ED02	A8166207	42046D03	D50F4554	2301B920	17D431A5	*.....*
OBGN0	62054204	2301FF84	6D03D50F	45548500	4D8C4D86	4D87B920	17D431A5	6C00DC0E	*.....*
OBGO0	852075F4	843E8500	6530BC85	AD2D6221	4204FF82	853F4554	A81BBD20	C1026E35	*.....*
OBGP0	96016EB5	6EB6A80C	BD20C12A	6E379601	6EB76EB8	A601B628	9802AD5B	65185F80	*.....*
OBGQ0	AD595532	3237FF55	32324040	7F7F2DFF	FF99C9D1	D2D3D4D5	D6D7D8D9	E2E3E4E5	*.....*
OBGR0	E6E7E8E9	F0F1F2F3	F4F9FF87	8D0AA0A0	A0A048C5	CCCCFA0A	C6D2CF4D	A0D4D459	*.....*
OBGS0	3333AF33	35A08DFF	0AFF0A0A	0A0A0A0A	0A996FB0	8600ADAF	6FB1A809	6FB2A80D	*.....*
OBGT0	6FB3A811	6FB4A815	BF20C102	A804BF20	C12A67AE	6E00EE02	A8224344	BF20C2C6	*.....*
OBGU0	67AA6205	4204BC20	79824295	A80E9F86	BF20C102	A804BF20	C12A67AE	BF200003	*.....*
OBGV0	47646F03	D7084754	82EF6B01	BF20C1B2	ACAB672E	7310B920	C12A17B8	98086837	*.....*
OBGW0	A00168B7	A8066835	A00168B5	98186900	E98AB3FF	8802A808	D201A806	B37E8809	*.....*
OBGX0	E2FE67AE	A8E0B920	C10217A8	B729980A	6D386DB7	B920C12A	A8046D36	6DB561AE	*.....*
OBGY0	BC207982	ACD36FB5	A90B6FB7	A90F8120	71F4FF88	BC20C102	6835A806	BC20C12A	*.....*
OBGZ0	68378AE3	B0259806	AAE9B886	A8224288	FEC660A3	4510B501	8811B502	8815B532	*.....*
OBHA0	880C71E4	75B46323	73BC71F4	63A3B89D	86FF3248	23483248	4A804B81	4E824188	*.....*
OBHB0	21A89103	FF8669B5	69B6A804	69B769B8	3788A975	B882A81A	BD23FFFF	65A34510	*.....*
OBHC0	B57E8811	71E475B4	632373CC	71F463A3	B895C2FF	C3FF867E	A8496FB9	A94BA800	*.....*
OBHD0	BE20BAC8	2E2FC680	E6802EAE	62056026	A809BE20	BAC82E2F	C680E680	2EAE6207	*.....*
OBHE0	602A67A6	4554E2FB	4344AAD9	0003DF11	0000C2F4	00000000	00000000	00000000	*.....*
OBHF0	00000000	00000000	00000000	00000000	00000000	0000C2CC	0003DF10	00000000	*.....*
OBHG0	00000000	00000000	00000000	00000000	00000000	00000000	00000000	50000000	*.....*
OBHI0	00000000	D6202000	C3E7E2C7	D4C9E2C3	B8401900	77A82126	1507F580	8812E51E	*.....*
OBHJ0	B50C89B2	B51A89AE	B50689AA	3588A830	E51EB51A	89A0A80D	8701A824	B7018802	*.....*
OBHK0	A8062488	421AA812	B7028802	A80444A8	A808B920	300CB840	000087A0	A8028781	*.....*
OBHL0	22888802	A802A859	B8402170	0000C508	1005358A	21261731	A60877F8	015A1934	*.....*
OBHM0	C90677F8	77F877F8	67858705	6F874788	882E6F06	CF184725	679740A5	4F266F98	*.....*
OBHN0	471F679B	4F206F9C	4F244FA6	A8124723	679740A3	4F2D6F98	4F246F9C	4F224FAD	*.....*
OBHO0	6F06B700	8906B7A0	8802A862	B7A08802	A80C4488	8808471F	67894F21	6F8A2126	*.....*
OBHP0	1F016F8C	17036E8D	6F8E1F00	6F8F1707	67911F04	6F92170B	6E936F94	1F086F95	*.....*

OC420	6F068802	A8284788	88144F20	B7878802	A80C1713	77987798	88027F04	6F99350A	* .....	*
OC440	880C308A	308B571D	6789571F	678B6F06	B7818802	A8068701	6F86A866	B7A08802	* .....	*
OC460	A8601F05	6F991F53	CF82A808	11231F59	6F9D111F	44888814	4F2F6F9E	4F316F9F	* .....	*
OC480	4F286FA0	4F296FA1	8703A802	87026F86	175367A3	1F07E7FE	B7628802	A8241513	* .....	X.....*
OC4A0	55985598	881C3F02	75185F04	6FA45F05	6FA55F06	6FA61513	55985598	B8400518	* .....	.....*
OC4C0	A800A810	00000000	0000C4EA	EC217F0C	B800C4EA	B84020B6	0000F520	00000801	* .....	D.....D.....5.....*
OC4E0	00300000	C4C40000	F524B700	8808B920	3005B840	0000A9C9	50010000	61950695	* .....	DD..5.....I.....*
OC500	C3E7C4C9	D3C5D97C	B8401900	8181B840	21700000	FC104205	0D10B7A0	8802A80A	* .....	CXDILER.....*
OC520	B5439802	A8028500	A808B539	9802A802	8500B500	8802A822	8001B840	030E360A	* .....	.....*
OC540	B8400661	85123D83	B7A08802	A8068523	6D83A804	85196D83	A814BE20	001C3698	* .....	.....*
OC560	B7A08802	A8048535	A802852B	B0509820	8802A80A	BD20002B	B9200023	A808BD20	* .....	.....*
OC580	0021B920	00193597	65889504	5030B985	85033D9C	4488880C	CF02A804	451DA802	* .....	.....*
OC5A0	451DA80A	CF02A804	2511A802	2543359F	6F86A8AD	8840B800	BD20C5C2	0B36CB24	* .....	.....EB.....*
OC5C0	A84EB800	BA368308	2B87A80C	21020362	13B89813	83042B87	218A218E	83032B86	* .....	.....*
OC5E0	B800BA48	2102E070	B0409804	B050982F	2102BB20	F0F031E8	23883419	41B0980C	* .....	.....00.Y.....*
OC600	93023419	930214B0	98115088	95045088	2102BB20	F0F031E8	BB2010F0	13B89817	* .....	.....00.Y...0.....*
OC620	A8175001	00000000	00000000	60710038	C3E7C4C9	D9D4C440	2703F6C0	985CF68E	* .....	.....CXDIRMD..6..6.*
OC640	98406378	E6817790	055A5D34	CD067790	77907790	96087401	0562A55C	54B89806	* .....	W.....*
OC660	A8304427	A80445F8	98094531	E5FE75B0	88147501	A502981A	5501E5FE	75B08806	* .....	8....V.....V.....*
OC680	A810B800	BBBE3378	3378B304	8808B30C	980CB800	BA36B800	BB06B800	BC8EBD20	* .....	.....*
OC6A0	78AC3518	5301CA26	241374B0	88022795	2B8CB20F	88109806	82802A88	A8048200	* .....	.....*
OC6C0	2A88B800	BA408200	2A88B800	BA48E27F	55C82508	5098A847	A849A84B	5C010000	* .....	.....S..H.....*
OC6E0	00000000	61570243	C3E7C4C9	C9C3E640	BD2078BA	5501BA21	9C608700	BC00C764	* .....	.....CXDIICW.....G.*
OC700	B7008802	A85ABC00	C790BC00	C7DE5901	E1FC5981	BE207910	65B88806	65B89812	* .....	G...G.....*
OC720	8810BE20	78BAC904	951AA804	BD207910	A80EBE20	78BEC904	951AA804	BD2078C2	* .....	I.....I.....B*
OC740	6581B840	21700000	F5200000	B7008802	A804A865	A808B920	3005B840	0000A804	* .....	5.....*
OC760	B8403540	5101F98C	BD2078BE	55015101	F98287FF	B7008802	A814292A	E1C0B1C0	* .....	9.....9.....*
OC780	880CBE20	78C06900	E17F6980	87FF4088	8181B840	21700000	FC100004	57010910	* .....	.....*
OC7A0	60089020	01389802	A81E8001	B840030E	360AB840	06618012	38836E83	81006982	* .....	.....*
OC7C0	B9200004	1698A80C	60089012	3883BE20	00203698	B9200008	61183197	40888103	* .....	.....*
OC7E0	399CBA21	9C602125	319F5800	52889502	51106130	B8872588	40884101	00000000	* .....	.....*
OC800	00000000	60290344	C3E7C4C9	C5D9E340	B8401AB8	00C02188	A1081288	B8400F78	* .....	.....CXDIERT.....*
OC820	33E88AC6	11A82929	88082198	1800F001	9B0E380D	E003292E	F1018802	D080388D	* .....	Y.F.....0.....1.....*
OC840	3093381F	F0808806	282DE0BD	28AD2422	2920C962	44228804	492CF95A	22223D1C	* .....	0.....I.....9.....*
OC860	3C1DB506	8AB6B507	8AB2B501	8842B505	883EB508	8802A83E	CCAAB406	8826B418	* .....	.....*
OC880	8822B421	881E2F2C	EF02A818	B8401081	00824928	D982AA52	41889114	1488B840	* .....	.....R.....*
OC8A0	1D10AA46	B8402170	0000D178	0004AA3A	2920F140	9A663D1C	3C1DB504	8A46B508	* .....	J.....1.....*
OC8C0	884B4488	88104928	F102880A	B5038806	292CF102	9A32360E	6E00CE82	AA3E2F2C	* .....	1.....1.....*
OC8E0	DF06292B	C902AA2C	292DF102	9A564488	88064928	C902AA20	360E6602	69288804	* .....	I.....1.....I.....*
OC900	B8000000	B5089802	A9FAED8A	FD04FD98	A92FD8A	A8C8FD02	FD90FD8A	A85C090A	* .....	.....2...H.....*
OC920	F102997A	A9DEA918	A866B407	9802A9DC	DE86A9E8	DF88A9E8	FF85CF89	EF0B291F	* .....	1.....Y..Y.....*
OC940	F1018812	2935880E	B40189D0	B40289CC	B40489C8	A804B406	89C2B840	21700000	* .....	1.....H.....B.....*
OC960	CC980000	6C806108	E106C106	98063904	F1809974	B8400508	A96EEE02	A99EB402	* .....	.....A.....1.....*
OC980	9802A988	B8402170	0000CB98	0000A958	B4069802	A976DE88	A982F701	8806A980	* .....	.....7.....*
OC9A0	B405880B	291FF101	88062935	8802A96C	B84020B6	0000CB98	00000000	00300000	* .....	1.....*
OC9C0	CC28F404	8806D710	B4058802	A91AB840	21700000	CC980000	11A86980	A90AEE02	* .....	4...P.....*
OC9E0	A93AB404	8926B405	8922B40C	891EB40D	891AB40F	9802A914	291FF101	88062935	* .....	.....1.....*
OCA00	8802A913	B4078802	A806F701	8802A910	EC14B840	20B60000	CB980000	00000030	* .....	7.....*
OCA20	0000CC28	A80AB840	21700000	CB980000	4108E103	C1039806	D710B407	8871A8A8	* .....	.....A..P.....*
OCA40	B4049802	A8C6291F	F1018806	29358802	A8CAFC82	A816F701	8802A8C4	B4038802	* .....	F..1.....7...D.....*
OCA60	A80A6108	E106C106	9802A8B0	B84020B6	0000CB98	00000000	00300000	CC28D710	* .....	A.....P.*
OCA80	B4028802	A812F604	880E11A8	292A2198	1D00D502	1D808507	FC82A84C	A8D1B404	* .....	6.....N.....J...*



OCAA0	9802A868	291FF101	88082935	8804B801	2B20FC94	B84020B6	0000CB98	00000000	*.....1.....*
OCAC0	00300000	CC28A81E	B8400D40	BE200000	8808691C	B1078802	A862B840	21700000	*.....*
OCAE0	CE980000	E7BFFC12	2FAC2F2C	DF82A806	B8401AB8	00C1B840	3500D710	4428A87B	*.....X.....A...P.....*
OCB00	8081A850	8082A840	8097A848	8083A838	8084A840	8085A83C	8086A838	8087A828	*.....*
OCB20	8088A824	808AA82C	808BA828	808CA824	808DA820	8091A810	8094A818	8096A814	*.....*
OCB40	8099A810	809CA80C	292DD102	29AD8180	399BA804	1128399B	3D1CB508	8814B503	*.....J.....*
OCB60	8810391F	F906B840	2F09A883	B8402F0A	A889B840	2F08A88F	D7E3C650	05020000	*.....9.....PTF.....*
OCB80	00000000	00000000	62300399	C3E7C4C1	F0F0F040	21A781C8	B820C9C2	DF84B800	*.....CXDA000...H...IB....*
OCBA0	CB20F604	8850FE02	A828B840	20B60001	4E380000	56050030	00014E4E	00088804	*...6.....*
OCBC0	B800CB48	E76F2930	910129B0	EF37D740	A83B11A8	292A2198	1900F102	8818492C	*...X.....P.....1.....*
OCBE0	F1048806	8089B800	CB54B502	8802A806	8088B800	CB54E7EF	29309101	29B0F708	*1.....X.....7.....*
OCC00	9802D740	B8402170	0000CC58	0000492C	F938F9B6	4928D9B2	E902A82E	2930B101	*..P.....9.9...R.Z.....*
OCC20	98048802	A824A810	DF864928	D986A81A	B800CB20	FF02D912	4188880E	91141488	*.....R.....R.....*
OCC40	B8401D10	4188A114	1488B840	10810082	A8BBEF63	5768A806	B820CAA	41419101	*.....*
OCC60	41C1F604	880E11A8	292A2198	1D00E5FD	1D803D1C	292DC9A1	4928D986	EF27E77F	*.A6.....V.....I...R...X.*
OCC80	A82B4188	91141488	B8401D10	4188A114	1488A819	55987598	B820C964	F6049826	*.....I.6.....*
OCCA0	B8402170	0000CC58	000011A8	29272688	16983119	6185390D	6981310E	61823115	*.....*
OCCCO	6187D701	A82FFE02	A82BB840	21700001	4E385605	00C88804	B800CB48	B5058802	*..P.....*
OCCEO	A8433904	F1808849	11A82927	26881698	A8317108	2853E10F	87FFA802	87004428	*.....1.....*
OCDO0	242E2626	B8400F00	33E888BA	3D1C8503	881C4D2D	F5088844	4D2EFD86	B8400509	*.....Y.....5.....*
OCDD0	A804B840	05494D2D	E5F74DAD	A8988162	399AA810	00000000	00000000	BC200000	*.....V7.....*
OCDE0	B8000000	B84020B6	00013378	00000801	00300000	CD340001	337CA86A	3D1AB5EA	*.....*
OCDF0	881AB565	8816B5EC	880CB5F3	8808E51F	B5048802	A80E2D28	E5FD2DA8	381AD060	*.....3...V.....V.....*
OCDB0	389AA83E	80606507	3D9BB7FF	8808B840	2FD04428	A8304D1E	F8048818	B8402170	*.....5.....*
OCDA0	00017150	0E05880C	B8401081	00C2A872	B8400F00	49288808	80C4BE00	0000A810	*.....B...D.....*
OCDC0	8062B840	2F0B2D28	F5408804	B800E978	4D2CED36	43018832	33983398	3D1CB508	*.....5.....Z.....*
OCDE0	8802A816	B8400F10	3D0DD510	3D8DB840	21700000	D1780A05	A827D2C	F501880A	*.....N.....J.....5...*
OCDF0	2D44F510	9818B801	4FF82D2C	F502880E	2D3FF540	8808E5BF	2DBFB801	5948B800	*.5.....8...5.....5...V.....*
OCED0	D328B800	CFC04101	00000000	60280534	C3E7C4C2	C3C8D57C	2626242E	B8401AB8	*L.....CXDBCHN.....*
OCCE0	00C13388	880A391A	D906C984	D120399A	60838500	6D806D07	E51EB508	8806B518	*.A.....R.I.J.....V.....*
OCCE0	8802A804	B800CFC0	85946D81	B8402300	B8403540	41010000	00000000	60290048	*.....*
OCCE0	C3E7C4C2	E6E3C940	26266D06	E50EB508	8802A80C	60872135	A10821B5	B800CFC0	*CXDBWTI...V.....*
OCCE0	8701A802	7728B840	1AB800C4	2D38E5F7	2DB82626	65073D9B	B4008804	B800D290	*.....D...V7.....K...*
OCCE0	FF908538	6D872D28	ED84B800	CFC0B800	E970BE00	CF562D2C	FD02A817	242E4D1E	*.....Z.....*
OCCE0	F5208840	351DB402	8802A838	E5F7B503	9802A830	4D20E57F	B54C8802	A81E3588	*5.....V7.....V.....*
OCFF0	11A83902	95045198	1C011D02	E40FB401	8806B405	8802A80C	F5088808	85004DB3	*.....U.....5.....*
OCF20	B8015A80	4D339501	4C328867	45388804	4DB3A86F	3D1DB506	8818B50E	8814B502	*.....*
OCF40	8806B50A	8802A883	2D3FD540	2DBFB800	CFC0B801	59483D1D	B5069806	B50E8802	*.....N.....*
OCF60	A848242E	4D2DED1C	35888001	B840031E	530AB840	320B3085	381AE060	D000B840	*.....*
OCF80	2FD05388	B8400B48	A812BD20	0000492E	F986B840	0518A804	B8400558	4D2DE5F7	*.....9.....V7...*
OCFA0	4DAD3081	30A18500	3D836088	41010000	00000000	60290049	C3E7C4C2	E6E3E340	*.....CXDBWTT...*
OCFC0	23013398	33982735	88169704	27B5252A	57987900	88087602	56A826B5	77027002	*.....*
OCFE0	B9201003	B8400000	41010000	60290032	C3E7C4C2	E2C5D87C	2626B840	1AB800C4	*.....CXDBSEQ...D...*
OD000	2D38E5F7	2DB8391A	9120399A	27889714	B8400FA8	BC200000	B8401AA8	00C12C28	*..V7.....A...*
OD020	E4DF2CA8	85004DB3	4D1EF520	883E3D1C	B5028802	A8364D20	E57FB54C	8802A81E	*U.....5.....V.....*
OD040	358811A8	39029504	51981C01	1D02E40F	B4018806	B4058802	A812F508	880E4D2C	*.....U.....5.....*
OD060	E5FD4DAC	65073D9B	B8015A8C	4D2CE5F5	4F308804	D540A804	F5418802	E57F4DAC	*V.....V5...N...5...V...*
OD080	B800CFC0	41010000	00000000	60290008	C3E7C4C2	C4E34040	242E2626	B8401AB8	*.....CXDBDT...*
OD0A0	00C42D2C	F504881A	6D06E50E	B5088802	A8106D01	B525880A	2135A108	21B5B800	*.D...5...V.....*
OD0C0	CFC02D2C	F5028824	6507B596	8802A81C	4D358804	B801628E	4D2DF510	880A2135	*.....5.....5.....*
OD0E0	A10821B5	B8015948	B80159B8	6507B58C	8802A816	2D28CD92	2D28E5F7	2DA82588	*.....V7...*
OD100	9514B840	1D18B840	3540B800	D9984101	00000000	60290017	C3E7C4C2	D5D9E340	*.....R.....CXDBNRT...*

0D120	B8400F00	B8402170	0000D178	02052F2C	21889114	1288B840	0D40BC20	0000880E	* . . . . . J . . . . . *
0D140	B8400D50	BD200000	880C5701	8816B840	1D00B840	3540F702	880D2188	A1141288	* . . . . . 7 . . . . . *
0D160	B8015948	571DBD20	084357B0	8802A823	2D14D510	2D94A827	B8401900	360E6F00	* . . . . . N . . . . . *
0D180	CF18CF9C	DF08B700	880AB800	D202BF21	9738A810	BF219738	A80ABF21	9724A804	* . . . . . K . . . . . *
0D1A0	BF2196EC	3C1D6202	79001438	880C7801	C8049704	A80FB800	D23C7002	D7E3C650	* . . . . . H . . . . . K . . . . . PTF . *
0D1C0	05030000	00000000	62850365	C3E7C4D2	C3E3D3D9	EC55BD20	80600608	3D1DCD02	* . . . . . CXDKCTLR . . . . . *
0D1E0	A8163D1E	CD02A810	0D0ACD82	A80AB840	21700000	00004005	6008B840	2F0AB800	* . . . . . *
0D200	D1788081	A80D8082	A8118083	A8158084	A8198085	A81D8086	A8218087	A8258088	* J . . . . . *
0D220	A829809A	A82D808B	A831808C	A835808D	A839808F	B800D1FA	8091A843	8095B800	* . . . . . J . . . . . *
0D240	D1FA4101	0000C000	0000C000	60300060	C3E7C4D2	C5D5C440	B8401900	4D274188	* J . . . . . CXDKEND . . . . . *
0D260	51188400	3C9E3C9A	3C9B3C9F	30851505	35991507	3595451D	359730A1	1C013C8D	* . . . . . *
0D280	1502358E	1C003C9D	85053D9C	A8378000	77A82F3C	2C3B2D3A	54388830	94012CBB	* . . . . . *
0D2A0	77808818	B8400F00	35889504	B8402C83	00282135	A10821B5	B8403580	2135A108	* . . . . . *
0D2C0	21B5B800	CFC0E5DF	4DADA828	242E8400	2CBB8840	0F00381A	E060D081	389A4D20	* . . . . . V . . . . . *
0D2E0	B5878802	A8044D2D	DD25B840	21700000	C3300605	49288808	8004BE00	0Q00A812	* . . . . . C . . . . . *
0D300	381A3D1B	F5019806	B8402F09	A804B840	2F0B4D2D	D5404DAD	2D28CD84	B800D328	* . . . . . 5 . . . . . N . . . . . L . *
0D320	B800E978	A816DF94	B8402170	0000D338	0004B840	3540C610	B8401900	2D38F501	* . Z . . . . . L . . . . F . . . . 5 . *
0D340	981C2588	95145401	88404498	44984905	E1F0B1A0	98084301	880E3398	33982588	* . . . . . 0 . . . . . *
0D360	9514B840	1D18A831	45889508	B8401A98	00C12D28	D5102DA8	0D09F520	8847B840	* . . . . . A . N . . . . 5 . . . . *
0D380	21700001	6910C000	A8532541	98312D2C	F5028823	2D548827	A83D4101	00000000	* . . . . . 5 . . . . . *
0D3A0	00000000	60290044	C3E7C4C2	E2E4C27C	BD200014	52A8242E	26262D37	F50198D0	* . . . . . CXDBSUB . . . . . 5 . . . *
0D3C0	2D28E5EF	2DA82C2C	FC04B801	4A982C2C	F4028812	651E214E	15B89802	A808B920	* . V . . . . . 4 . . . . . *
0D3E0	10EEB840	00002D28	F520982A	B8400F38	33E88802	A8462541	E4808808	B92010FF	* . . . . . 5 . . . . . Y . . . . . U . . . *
0D400	B8400000	2C2CF401	8804B801	4C98F402	888CB801	55604D2D	CDBAB840	0D108814	* . . . . . 4 . . . . . 4 . . . . . *
0D420	2D37F508	880EB840	21700001	73C80004	B8403540	B8400F10	33E8882E	B8402170	* . 5 . . . . . H . . . . . Y . . . . *
0D440	0000D508	0004B840	1F80B840	108100C2	B8403540	43018822	33983398	351DB408	* . N . . . . . B . . . . . *
0D460	8802A816	B512884F	CDD12D37	F5089E0A	2D38F501	8804452F	FD1A2D28	D5102DA8	* . . . . . J . 5 . . . . 5 . . . . N . . *
0D480	0D09F520	880AB840	21700001	69100000	88403540	B8017416	B8400F38	A8634D2D	* . 5 . . . . . *
0D4A0	CDCF2141	882D4D2C	CD316D9C	F5418812	2C28D408	2CA8F540	88342D2C	F50198AB	* . . . . . 5 . . . . . M . . . 5 . . . 5 . *
0D4C0	A828A101	21C1D58A	4DAC2C28	D4202C88	4D30A501	4DB02588	9514B840	149A00C0	* . . . . . AN . . . . . M . . . . . *
0D4E0	A8CD4301	33983398	A804BB20	D4E4B840	21700000	D5080004	B8401D00	B8403540	* . . . . . MU . . . . . N . . . . . *
0D500	06004808	A817BC00	B8401900	3388980E	418855A8	4D275118	84051D00	A8043C1C	* . . . . . *
0D520	3D1DB920	12401701	75B08814	B6FF8804	9102A80F	B4C88808	B9201004	B8400000	* . . . . . *
0D540	BF201240	71A8272A	17987501	25B5A849	41010000	60290021	C3E7C4C2	D7E6E27C	* . . . . . CXDBPWS . *
0D560	242E2626	B8401AB8	00C42D28	F5049932	6507B406	8802A83C	B51E8828	4C20B487	* . . . . . D . 5 . . . . . *
0D580	8802A830	FD82A82C	63133398	33988824	3D04B508	880AB520	8814B510	8810A814	* . . . . . *
0D5A0	B8400508	2D28F540	98F8B800	D3284D2D	D5204DAD	43013398	33982D28	E5F72DA8	* . . . . . 5 . 8 . L . N . . . . . V7 . *
0D5C0	2541A501	25C14D30	A5014DB0	391AD906	C984D120	399A6507	3D9BB51C	8888B58E	* . . . . . A . . . . . R . I . J . . . . *
0D5E0	8884B586	88804D20	B5878802	A82C6507	FD82A826	452FDC22	35015598	55985588	* . . . . . *
0D600	8806B840	05583081	65135598	5598B840	0619651B	35A155A8	3C83B840	0F104D30	* . . . . . *
0D620	8802A806	4D2CE5BF	4DAC4D2C	D5804DAC	381AE060	D089389A	6507B51A	8802A81E	* . . . . . V . . . . . N . . . . . *
0D640	4D20B5CC	881CB54C	88186C07	B5CF8806	B5D08806	A808B40E	8808B408	8804B800	* . . . . . *
0D660	D2DEB801	61D42588	9514B840	149A00C0	B8401A98	00C44D2C	D58AE5RF	4DAC2D28	* K . . . . . M . . . . . D . N . V . . . *
0D680	D5202DA8	6507B586	881C3D1D	E5FF980A	8060B840	0F10B840	2F0B2D28	CD84B800	* N . . . . . V . . . . . *
0D6A0	D328B800	E978381A	E060D084	4D2DD540	4DADA823	D7E3C650	05030000	00000000	* L . . . . . Z . . . . . N . . . . . PTF . . . *
0D6C0	62850363	C3E7C4C2	C3E37C40	014829AE	B8401900	2D2CCD84	FDC8A80D	B8400D00	* . . . . . CXDBCT . . . . . H . . . . *
0D6E0	8813381C	391DB008	8806B840	0F00A81C	B8401308	44E88829	481C491D	B0888808	* . . . . . Y . . . . . *
0D700	B8401681	00A0A804	4388A81D	E5BF2830	A00128B0	FD82D580	282DD040	28AD80B8	* . . . . . V . . . . . N . . . . . *
0D720	A822391E	D936E5FE	D5803688	8001B840	0326330A	30852488	B8402170	0000D258	* . . . . . R . V . N . . . . . K . *
0D740	1005809E	B8402FOA	63887788	880A7937	E9867141	A10171C1	2DACA88D	11A8292A	* . . . . . Z . . . . . A . . . . . *
0D760	88082198	1900F110	88457937	F18098A1	391DB199	8802A8A9	292DD104	29ADE5FE	* . . . . . 1 . . . . . 1 . . . . . J . . . V . *
0D780	D580A83B	41010000	00000000	60290182	C3E7C4C5	D9C3C940	242E2626	B8401AB8	* N . . . . . CXDERCI . . . . . *

0D7A0	00C18500	6D8055A8	4C2FE478	65832D28	F508989E	6C01DC1E	B48D8802	A80A6507	*.A.....U.....5.....*
0D7C0	E5FEB516	8886A88A	6507B586	887EE5E0	8880B580	887CB427	88726507	E59EB510	*V.....V.....V.....*
0D7E0	8858B400	8822B594	8868B412	885EB506	885AB586	8856B58A	8852B408	8802A852	*.....*
0D800	6C01B42A	8846A84A	B51C884E	B5968842	E51EB518	883C2C2C	FC02A814	6C01B428	*.....*
0D820	8802A80C	6D1CCD82	A8068500	6D9CA822	6507F51E	B5108802	A8122D3E	88143D1E	*.....V.....*
0D840	E5AF3D9E	608F8525	6D81A926	852A6D81	A8682D28	F5089810	3D1ED550	3D9E6503	*V.....5.....N.....*
0D860	B920004C	15D06583	2D2CFD06	4C1FFC96	A82C4D2D	F5108804	8502A802	2D506D94	*.....5.....*
0D880	85006D9C	A8048510	6D946503	B9200020	15D06583	BD200037	47885798	67964D2D	*.....*
0D8A0	E5F74DAD	85286D81	6D07E5FE	B50E880A	6703FB920	200017D0	67832D28	F5088808	*v7.....V.....5.....*
0D8C0	851E6D8C	608FA88C	6503B920	001015D0	65832301	33983398	318833F8	33F8638F	*.....8.8.....*
0D8E0	13886703	6D01B52A	8802A830	3C1EE402	2D38E508	54588806	B9200002	17D03C1E	*.....U..V.....*
0D900	E4042D38	E5085458	8806B920	000417D0	67832D2C	F5048804	B80135E8	2D2CF504	*U..V.....5.....Y..5..*
0D920	8804B801	362A6783	3D1EF520	88263D03	881A6D94	3D023188	51189104	61968500	*.....5.....*
0D940	3D836503	B9200008	15D06583	2D3FE5DF	2DBFA81E	4D20B58A	88062D3F	F5208812	*.....V.....5.....*
0D960	B84020B6	00015350	00000205	00300001	53EAB840	2300B840	3540D7E3	C6500502	*.....PTF...*
0D980	00000000	00000000	62370954	C3E7C4C2	D9C97C40	B7158887	2626242E	B8401AB8	*.....CXDBRI.....*
0D9A0	00C44D1F	F5018808	4D358804	B8015CC8	2D3FF504	881E6D01	DD82A818	3D1ED510	*.D..5.....H..5.....N..*
0D9C0	3D9E6513	55985598	55888804	B8400659	85003D83	2D28F508	88F0630F	33983398	*.....5..0.....*
0D9E0	33889818	8001B840	03340000	E000BB20	E0003306	841E8500	3583A800	B8402170	*.....*
0DA00	0000D258	0004E840	10810082	3D1ED550	3D9E2D28	E5F72DA8	3D1DB505	880C4D2C	*.K.....N.....v7.....*
0DA20	E5FE4DAC	2541A501	25C1651B	35A16D05	3D8CB840	21700000	E6F00004	391AD906	*V.....A.....W0...R..*
0DA40	C984D120	399A6507	3D9BD400	9852B58E	884E4D2C	D58A4DAC	2D28D520	2DA82788	*I..J.....M.....N.....N..*
0DA60	9714B840	14AA00C0	B8401AA8	00C43D1D	B504881E	B505881A	4D2CE5EF	4DACF540	*.....D.....V..5..*
0DA80	88102788	4288B84C	21700000	D6D02C05	72886507	440888E0	E59EC510	88DAAB3A	*.....O.....V.E.....*
0DAE0	E40EB402	8855651E	98594D2C	B8014DAC	4D2CE504	880C4D2C	E5FE4DAC	2541A501	*U.....N.....V.....V..*
0DAC0	25C1381A	E060D089	AB206503	BF200006	75E075C0	98142D38	E5F72DB8	4D20E57F	*.A.....v7.....V..*
0DAE0	C5469806	4D2DE5DF	4DAD651B	35A1391A	D906C984	D120399A	6D053D8C	2D3EB500	*E.....V.....R.I.J.....*
0DB00	8802A80C	65073D9B	E59EC510	8810A82C	650F5598	55985588	981030A1	A81A6D06	*.....V.E.....*
0DB20	88562D3F	E5FB2DBF	A8DCB840	06596507	3D9BE59E	C510881B	85002DBE	B8402170	*.....V.....V.E.....*
0DB40	0000E6F0	00042D38	F5018816	B8402170	00017320	0F05880A	389A2D28	D5022DA8	*..W0...5.....N.....*
0DB60	AA1A6507	3D9BD400	9A70B596	8802A808	381AE060	D083AA72	0D0AF502	8812B840	*.....M.....5.....*
0DB80	21700001	31C80E05	88062D28	D5022DA8	4D20F540	883C3788	3D03B500	88343D02	*.....H.....N.....5.....*
0DBA0	57189704	7C00B46C	8802A826	7C01B4C4	8816B4E5	8812B4D9	8802A816	6507E59E	*.....D...V...R...V..*
0DBC0	C5108842	B8015B20	4C2DD440	4CAD84EA	3C9A6507	E51EB518	89A26507	E59EC510	*E.....M.....V.....V.E..*
0DBE0	99C8452F	ED02A81E	4D2DF508	98182D3E	95019804	2DBEA804	85012DBE	2C3DB400	*.H.....5.....*
0DC00	88EA4538	98E68500	2DBE212A	2D2CFD86	BD2015F4	A804BD20	142415A8	A50425B5	*.....W.....*
0DC20	8020B840	2B00A800	85256D81	B8402300	4D1FFD82	A8088010	B8402B00	A800B840	*.....*
0DC40	0F384D2D	F508880A	E5F74DAD	B8400508	A8184D20	B5CC8802	A80480AB	A80880A1	*.....5...v7.....*
0DC60	4E2DD540	4DADBD00	DF42D28	E5EF2DA8	4D2CE501	880C4D2C	E5FE4DAC	2541A501	*.N.....4..V.....V.....*
0DC80	25C1E840	35402626	651B880A	630F3398	3398B840	05088518	6D872D2C	F50288D2	*.A.....5.....K..*
0DCA0	242E4D2D	E5DF4DAD	AA142C2C	F4049A7F	2D3FF504	8804E5FB	2DBF11A8	49274198	*.....V.....4.....5...V..*
0DCC0	1D08F504	88082135	910421B5	A8AE3D1C	B501880C	B5058808	1C08B401	8882A80C	*..5.....*
0DCE0	3D1DD500	880FB501	8876A800	2D28F502	8814E5FD	2DA83D1B	B5188802	A8103D1A	*.N.....5...V.....*
0DD00	D5603D9A	A808381A	E060D002	389AB840	0F383588	8001B840	031E530A	3085B840	*N.....*
0DD20	320B30A1	3F1EF7DF	3F9E8700	3F9B3F1A	E7603F9A	3E1EE6AF	3E9EB840	10810082	*.....X.....X.....W.....*
0DD40	53882135	A10821B5	2D28F502	980C4928	880880C4	BE000000	A97C381A	BD00DFF4	*.....5.....D.....4..*
0DD60	2D28CD84	B800CF0C	26266507	E59EC510	896D2D28	E5FD2DA8	B800E970	2D3FE5FB	*.....V.E.....V.....Z...V..*
0DD80	2DBF2D2C	F5048814	4D2DE5EF	4DAD2C3F	F4089946	4D2DF520	8802A988	2D2CF502	*.....5...V.....4.....5.....*
0DDA0	88433D1C	B5018804	C505980A	3D1DB504	8853B505	88574D33	95014C32	885F4538	*.....E.....*
0DDC0	88044DB3	A8672D3E	F5088806	E5F72DB8	A8732D3F	D5402DBF	A87B4D2D	F5208804	*.....5...v7.....N.....5.....*
0DDE0	C5204DAD	381AE060	D081389A	4D2DF508	880EE5F7	4DAD2D3F	D5402DBF	B800CE0A	*E.....5...v7.....N.....*
0DE00	6703EF02	A80E2F2C	FF82A808	F7048804	B8000000	6707F701	9802A80E	67137798	*.....7.....7.....*

0DE20	77988806	30A1B840	05284D20	B5CF8806	B5D08802	A80C6507	B5088802	A804B801	*.....*
0DE40	61A0B840	0F38242E	B8402170	0000C330	24054D2D	D5404DAD	49288808	8004BE00	*.....C.....N.....*
0DE60	0000A872	26263521	98326507	B58C8802	A82A482B	F010881C	282CF001	8816381C	*.....0.....0.....*
0DE80	B0058802	A80EB840	0D50BD20	00008804	80FF589A	381AE060	D09EA82A	6507B412	*.....*
0DEA0	8802A808	381AE060	D080A81A	381A2D28	F5208812	2D2CF502	880CBD00	DF40D000	*.....5.....5.....4.....*
0DEC0	4DB3B801	5948BD00	DF44D2D	D5404DAD	2D28F540	996FB800	D3284D20	E57FC54C	*.....4..N.....5.....L.....V..E..*
0DEE0	980A4D2D	E5DF4DAD	B80161A0	E4F72CBF	4D20E57F	C546995D	2D2CF502	9802A965	*...V.....U7....V..E.....5.....*
0DF00	47017798	77988816	751DB408	8802A80E	B5438802	A8082D38	F5089802	A9834D2D	*.....5.....*
0DF20	D5104DAD	2135A108	21B5B801	59486507	E51EC512	880A2D3F	D508E5FE	2DBFAA87	*N.....V..E.....N..V.....*
0DF40	2D3FE5F7	2DRFF504	8802A848	3D1DE504	8842B505	883E3D1C	B501882A	B5058826	*..V7..5.....*
0DF60	4C20E47F	C44C980E	C502980A	3C1DB40E	8822B406	881E11A8	49274198	1C08B403	*..U..D...E.....*
0DF80	8812B800	CFC03D1D	D5008817	B5038804	B800CFC0	4D20E57F	B546A800	B547A800	*.....N.....V.....*
0DFA0	B54C882C	2D3FD501	2DBF4C20	E47FB44F	8810R450	880CF504	8ACFE5FB	2DBFB800	*.....N.....U.....5...V.....*
0DFC0	CFC02D3F	381AB0EA	8806B065	8802A81B	4D2DF508	98198518	3D9B4C2D	D4084CAD	*.....5.....M.....*
0DFE0	381AB0EA	8ADBB065	8ADF2D28	F5029AFF	8062AAE9	2F28E7FD	2FA8B840	2F0B5088	*.....5.....Z..X.....*
0E000	00000000	00000000	D7E3C650	05020000	00000000	00000000	62400051	C3E7C4C2	*.....PTF.....CXDB*
0E020	C3D9E37C	A8062C41	242E2726	B8401AB8	00C111A8	7980293B	11088806	81167981	*CRT.....A.....*
0E040	A99E412F	2D2CED86	F1049802	D002BE20	FF0016E8	292CE99A	381DB001	8806B009	*.....1.....Y..Z.....*
0E060	8802A80E	F986B920	00A8A804	B92000A0	8202B570	41088816	391B885C	F5808808	*.....9.....5.....*
0E080	5108E11E	C11A8960	F401884C	A95A412F	F0028804	B5908858	B596883C	E51EB518	*...A...4.....0.....V...*
0E0A0	8836E40E	B4068830	7D01B5AC	8866B58F	881EB58D	8802A812	292CF101	880CBD20	*..U.....1.....*
0E0C0	00407103	15E89808	7D01CD0C	DDC6A84A	7107E11E	B11C883C	81107981	76834928	*...Y.....F.....*
0E0E0	88768020	BE000000	A8002726	7603A868	81197981	75165101	88081198	11981588	*.....*
0E100	A80DB840	064BFD20	00027103	15E88835	56D8A839	81127981	A83F491E	C986292C	*...Y...Q.....I...*
0E120	E996A84D	292CE982	A8177107	E11EB112	881FB114	8802A861	B8400F00	8180399B	*Z...Z.....*
0E140	8089B840	2F08492D	D14049AD	2928C984	B800D328	B800E978	4920C982	A804B801	*...J...I...L...Z...I...*
0E160	3508292C	F902E990	491FF902	A80A11A8	4934912C	419871A2	318811F8	11F8718F	*...9.Z...9.....8.8...*
0E180	391EF108	98403802	788C3521	8838492E	F1028832	780C7507	B590881A	730F3398	*..1.....1.....*
0E1A0	33980318	93043900	B1018802	A806BD20	000256D8	9001788C	8806B920	001016D8	*.....Q.....Q.....*
0E1C0	B9200900	16D87683	293FF120	8812B840	20B60001	53500000	00040030	000153EA	*.....Q...1.....*
0E1E0	B8402300	B8403540	81127981	7603293F	D9B2B920	001016D8	7107B11C	880A8110	*.....R.....Q.....*
0E200	7981B198	8802A812	7103E982	A802F80A	492EF906	790D9101	798D7111	718F790D	*.....Z...8...9.....*
0E220	798CA897	E1EF29BF	B9200004	16D8B920	FFF716E8	412FF806	B920FDFE	16E8A87B	*.....Q...7..Y..8.....Y...*
0E240	D7E3C650	05040000	00000000	00000000	63150541	C3E7C4C2	C3E6C97C	0000B800	*PTF.....CXDBCWI.....*
0E260	242EB840	1AB800C4	26266507	3D9B292C	F1048814	6906E10E	B1088802	A80A2135	*...D.....1.....*
0E280	A10821B5	B800CFC0	6901C119	9820B590	8A3C6716	758835B8	880C5188	15018808	*.....A.....*
0E2A0	55985598	A8111081	B8400528	65074408	8A14B406	8802A816	B51E8802	A810292C	*.....*
0E2C0	F902A8D0	2135A108	21B5B801	59485108	E1E09860	FD82A85C	67137798	7798881C	*9.....*
0E2E0	7904B108	880AB120	880CB110	8808A80C	B8400528	A839492D	D12049AD	412FD82A	*.....J.....Q...*
0E300	33013398	33983388	8804B840	05482301	33983398	3081611E	31A180C0	38836613	*.....*
0E320	66986698	B8400661	A8347788	8866B840	0528A82A	F5808808	5108E11E	C11A88FE	*.....5.....A...*
0E340	F4018808	B51C892A	B5988926	DCCCB50E	8802A80A	4108E10E	B1068802	A83C5008	*4.....*
0E360	E0FE4920	B1D08814	B1CF8802	A812B00E	8802A808	4108E10E	B1068820	B008881C	*.....*
0E380	5008E09E	B0108A0A	A8B44920	B1CC880C	B14C8808	B8400F38	A810A8E8	002828BB	*.....Y.....*
0E3A0	B80161A0	E1DF49AD	A81C381A	E060D081	4920B187	8802A804	492DD919	B8402170	*.....R.....*
0E3C0	0000C330	75059020	391DE103	B1038802	A806492C	E1EF49AC	492DD140	49AD389A	*..C.....J.....*
0E3E0	49288808	8004BE00	0000A824	F5019816	381AB840	2F09292C	F1028814	810049E3	*.....5.....1.....*
0E400	29BBB801	5948242E	381AB840	2F0BA81B	002828BB	2928C984	B800D328	B800E978	*.....I...L...Z...*
0E420	6103F001	88123701	77987798	8806B840	05683081	11283983	30A1B800	CFC02838	*..0.....*
0E440	F0018816	B8402170	000172C8	0004880A	389AB840	0F38381A	A893B59A	8802A8D7	*0.....H.....P...*
0E460	412FE986	F401980A	A8E1B840	0F3880D3	A8AB2135	A10821B5	B8402170	0000E6F0	*..Z.4.....L.....W0...*
0E480	5005A84B	293A283B	90010138	982C28BB	B8402170	0000E6F0	5005B840	0F38B840	*.....W0.....*

0E4A0	1FB811A8	293C1488	B8402C81	00502135	A10821B5	3193B840	3540B840	0F38381A	*.....*
0E4C0	E060D080	A917B590	8802A856	63968001	B840030E	370A7085	B8403229	B8400F38	*.....*
0E4E0	7388B840	108100C2	6901C119	98046507	A8306316	670F7798	77983588	73B88816	*...B..A.....*
0E500	51011198	11985081	B8400518	158817B8	8802A815	6596B840	0D00690D	91016994	*.....*
0E520	6507B840	21700000	E6F05005	391A9120	399A4920	B14C8802	A826391D	E1F7B106	*...W0.....7..*
0E540	8802A81C	11A83902	91043198	1E00B627	88029101	E102F608	8806492D	D12049AD	*.....6.....J..*
0E560	002828BB	B58689E9	FDB65108	E1E0B120	8820B140	881CB160	8818391F	F1048806	*.....Z.....1..*
0E580	492DD108	49AD491E	D902A96D	30A1B801	5AD82135	910821B5	293FD104	29BFA981	*..J...R.....Q...J...*
0E5A0	B801359E	D7E3C650	05040000	00000000	63430408	C3E7C4C2	C3E6E37C	B9200140	*...PTF.....CXDBCWT...*
0E5C0	37883503	9414A514	75833521	759B3515	75993513	75953517	A50A75A1	3509A514	*.....*
0E5E0	75893511	75977093	7091708E	1088D7E3	C6500504	00000000	00000000	00000000	*.....PTF.....*
0E600	63160713	C3E7C4C2	E2D9E340	B598881F	37887503	A4069506	35837509	95067589	*...CXDBSRT.....*
0E620	75173593	7521950A	35977515	35917519	3595751B	35A1CC06	849B8580	A804849B	*.....*
0E640	85903599	84003C9A	3C9BBD20	0E00358F	1088DF86	44984498	292DF142	887EF140	*.....1...1...*
0E660	9806E1FD	29ADA874	B8400D40	BC200000	8830292C	4E1CB608	8818B606	8810B602	*.....*
0E680	8802A804	4E1DEE06	F1088806	A80AF108	8806808B	B800D1FA	3E1E4F1E	67584F9E	*.....1...1...J...*
0E6A0	A80E292C	F1089804	D110A802	E1EF29AC	292DE1BD	29AD292C	F1418808	F1089804	*...1...J.....1...1...*
0E6C0	E17F29AC	27222820	C8027722	7788880C	7828F010	88069714	B8401D28	B8001D8	*.....H.....0.....JQ*
0E6E0	41010000	60280527	C3E7C4C1	D9C5D340	B8401900	22888834	44888830	47259701	*.....CXDAREL.....*
0E700	47A52526	5F09880A	4E269601	4EA69601	98084725	97019802	A812B840	20B60000	*.....*
0E720	C3300000	75050030	0000C358	A83F4101	00000000	60290354	C3E7C4C9	D3E2C140	*C.....C.....CXDILSA*
0E740	B8200000	F282E37	CF02A804	DE02A816	CF0AB900	F3580000	0817A808	B900F358	*.....3.....3...*
0E760	00000818	A818BC00	E780B700	8802A806	BC00F7D6	A808B900	F3580000	081AA841	*.....X.....XO...3...*
0E780	21418802	A824DF82	A8202115	8802A81A	2E18CE16	2E2C8700	FE02A804	BD00E7AE	*.....X...*
0E7A0	2E37EE82	A8028701	A8028701	40882745	88048701	A81E8700	61889104	1E00B6FF	*.....*
0E7C0	8812F680	980E1602	6E2CF608	88048701	A802A81B	50882E37	D6802EB7	B8402170	*..6.....6.....0....*
0E7E0	00014970	08052F28	E77FD740	2FA823B2	33A84088	41010000	00000000	60290104	*.....X.P.....*
0E800	C3E7C4C5	C4D3C840	B8401900	7243B840	3182BE20	00008812	61889104	16886800	*CXDEDLH.....*
0E820	B0FF8802	C8A022A8	A823B920	1002B840	0000722E	882F221D	B8403182	BE200000	*.....H.....*
0E840	88196202	A80E6202	792CF101	88062920	F180982F	7937C908	292CF104	9838A849	*.....1...1...I...1...*
0E860	291EF120	8818292C	F1088812	F102980E	2904F180	98087930	D18079B0	A867B840	*..1...1...1...1...J...*
0E880	21700000	EC606605	292CD110	E1F329AC	112829AB	A80AB840	21700000	EB206005	*.....J..3.....*
0E8A0	792CF101	888F7944	F1108895	712E8899	21B88802	A89F2588	292A1518	5900E1FD	*..1...1.....*
0E8C0	5980A8AD	41010000	00000000	60290098	C3E7C4C5	C3C4E640	B8401A80	00C42F28	*.....CXDECDW.....D...*
0E8E0	E7BB2FA8	2F37E77F	2FB7212E	88081E29	8804BC00	E938BE21	9C606729	A70167A9	*X....X.....Z.....*
0E900	2F2C1188	8808F701	8804BC00	E948B840	21700000	D3380004	23328802	A808B920	*.....7....Z...L.....*
0E920	300DB840	000020B2	8503B840	21700000	FB980000	B8403540	61181F00	FF82A804	*.....*
0E940	B801429A	61284088	1E2A6118	1F00D702	1F806128	DF8210A2	2F44E7EF	2FC44088	*.....P.....X..D...*
0E960	41010000	60290100	C3E7C4C5	C4C2E340	2928E1FB	29A8A806	2928D104	29A8242E	*.....CXDEDBT.....J...*
0E980	27887626	7937F180	98A06901	B1288810	B18D8812	B1AC8854	4D2CF504	984EA902	*.....1.....5...*
0E9A0	6103D90D	A828742E	4D2CA840	2928F108	88102944	F1808841	2746790C	A101798C	*..R.....1...1.....*
0E9C0	A84B5900	D102E1FB	88040A2	A8576807	B0968810	4D2CED94	7928F104	98CAB840	*.....J.....1...1...*
0E9E0	1D28A8BE	7928E1F7	79A8A8BE	492BF180	9838F102	9824B110	880C7937	F140982A	*.....7.....1...1...1...*
0EA00	F1209816	A8246807	B096881E	B08C881A	68068802	A814B801	79086807	B08C880A	*1.....*
0EA20	68068802	A804E5FB	A8537928	E1F779A8	B8400D28	884A482B	E0369816	7837F080	*.....V.....7.....0...*
0EA40	9810F040	9850482C	F0048806	482BF080	9844B840	0F286807	389BB08C	8802A810	*..0...0...0...0...*
0EA60	6901D902	A804611B	31A111A8	81186187	492DE918	381AE060	D09E4288	B8402F48	*..R.....Z.....*
0EA80	7937C99E	F1808822	B8403540	B8400509	E1F749AD	A8177D28	F104984C	7288B800	*..I.1....7.....1...*
0EAA0	CFC07828	E0BF78A8	4DAC792C	F101882E	B84020B6	0000E808	00000004	00300000	*.....1.....Y.....Y...*
0EAC0	E8327944	F1408820	724AB840	20B60000	E8080000	00040030	0000E836	A80AB840	*Y...1....Y.....Y...*
0EAE0	21700000	E8080004	7828E0FB	78A87937	F1408804	B8000000	7828F040	980A7804	*...Y.....1.....0....*
0EB00	F0208814	B8403540	7937F140	9804E0BF	73A84D2D	E5FE4DAD	7288B800	D32811C8	*0....1.....V.....L..H*

0EB20	B8401900	292BE136	888A3488	B8400F00	33E8881A	351DB408	8808809E	B8402F48	*. . . . . Y. . . . . *
0EB40	A817CD82	A80DB840	14A900C0	A823B840	0F2933E8	8858B840	20B60000	EC600000	*. . . . . Y. . . . . *
0EB60	04050030	0000EC78	B8402170	0000EBE0	0605381A	B0FF8802	A81E2488	B8402170	*. . . . . . . . . . *
0EB80	0000ED28	0405282D	DC0828AD	3488B840	0D000028	389D4388	8060B840	2F0AB840	*. . . . . . . . . . *
0EBA0	0D28880A	351DB408	8802A802	CDE1282E	E0C928AB	7937F140	9812292B	F1809808	*. . . . . I. . . . . 1 . . . . . 1 . . . *
0EBC0	2D2CE5FB	2DAC8A89	B8000000	B8000000	41010000	60290188	C3E7C4C5	E2E2C140	*. . V. . . . . . . . . CXDESSA *
0EBE0	B8401900	381AE008	880B2188	91081288	B8400D00	8817B840	0F40391A	809EB840	*. . . . . . . . . . *
0EC00	2F48B108	8827A819	41010000	60300487	C3E7C4D5	D9C4C940	B8401900	B8400D00	*. . . . . CXDNRDI . . . . *
0EC20	88223517	75B08812	B8401308	44E88814	451775B0	880A4388	A81333A8	8103A829	*. . . . . Y. . . . . . . . . *
0EC40	8101A82D	33A88100	A8334101	00000000	00000000	60290180	C3E7C4C5	D8E2C340	*. . . . . . . . . CXDEQSC *
0EC60	B8401900	3588B840	0D00880E	B8400F00	809EB840	2F48A813	3588581D	B089884E	*. . . . . . . . . . *
0EC80	282DE09D	28AD282C	D090E0BF	E802A802	E0EF28AC	77888826	7937E9A2	29307341	*. . . . . Y. . . . . Z. . . . *
0ECA0	132873C1	6900E106	C1069812	7937D98E	F882A80A	E0FE28AC	7341A301	73C11128	*. . A. . . . A. . . . F. 8. . . . . A. *
0ECC0	29E05388	6900F106	C1068802	F882A871	B8402170	0000D6D0	3C05A87D	50010000	*. . . . . A. . . . 8. . . . . O. . . . . *
0ECE0	00000000	60760474	C3E7C4C5	D9E3C340	B8401900	3085811E	3982461D	3697B840	*. . . . . CXDERTC . . . . . *
0ED00	31A2BE20	00008800	368E8107	399C8102	399D11A8	3983399F	399E399A	399B3199	*. . . . . . . . . . *
0ED20	31A13195	3193A839	B8401900	35888001	B840030E	330AB840	21700000	ECF00004	*. . . . . . . . . . 0. . . *
0ED40	51193199	51153195	B8401091	0082492C	D11049AC	11A8492A	880A4198	16886900	*. . . . . . . . . J. . . . . *
0ED60	D1026980	492DE1BF	49AD9714	B8401D28	A714844D	41010000	00000000	60290102	*. . . . . . . . . . *
0ED80	C3E7C4C5	C4C5C340	B820F8E8	2928A95C	F1039862	2837D868	C866BC21	9C604729	*CXDEDEC . . 8Y. . I. 1. . . . Q. H. . . . *
0EDAC	970147A9	282CF8B8	2837D020	28B7BC20	1490BF20	15B047A8	A70427B5	272611A0	*. . . . . 8. . . . . . . . . *
0EDC0	7183808D	7881B840	1A8C00C1	B8402300	B8401081	00822828	E0EF28A8	33A8A859	*. . . . . . A. . . . . . . . . *
0EDE0	B8402170	00014D58	0000A865	B900F358	00000815	A86FB900	F3580000	0801A879	*. . . . . . . . . 3. . . . . 3. . . . *
0EE00	B900F358	00000818	A8834101	00000000	00000000	60290096	C3E7C4C5	C1D34040	*. . 3. . . . . . . . . CXDEAL *
0EE20	B8401900	391EC908	8060B840	2F0AA811	090AC982	A80FB840	21700000	00000004	*. . . . . I. . . . . I. . . . . *
0EE40	A81B4101	00000000	00000000	60300480	C3E7C4D5	C3D2D740	B8400F78	360E6202	*. . . . . . . . . CXDNCKP . . . . *
0EE60	3D1C3C1D	6800B504	881CB508	8802A80E	B8402170	0000D178	0004B840	35008087	*. . . . . . . . . J. . . . . *
0EE80	B8402F0A	A80D8082	A80B4101	00600000	00000000	60300223	C3E7C4D2	D5C4C9D7	*. . . . . . . . . CXDKNDIP*
0EEA0	B820F6DC	B8402170	0000EF98	0000B000	8802A824	3C1DBC00	EEE4B000	8802A810	*. . 6. . . . . . . . . U. . . . *
0EEC0	62026101	8503A800	B8402168	0008A808	B900F358	00001003	B8402170	0000FB98	*. . . . . . . . . 3. . . . . *
0EEE0	0000A845	77A8391C	B1028802	A836CD02	A806BF21	9C28A82A	6901B500	8802A808	*. . . . . . . . . . *
0EEF0	C906BF21	9C18A81A	CD82A80A	D902A806	BF219C04	A80CFD02	A808D902	A804BF21	*I. . . . . R. . . . . R. . . . *
0EF20	9C1CA844	B1038802	A826CD02	A806BF21	9C44A81A	6901B500	8802A808	C906BF21	*. . . . . . . . . I. . . . *
0EF40	9C24A80A	CD82A806	D904BF21	9C20A818	6901D90A	CD02A806	BF219C54	A80AD908	*. . . . . R. . . . . R. . . . R. *
0EF60	CD82A804	BF219C50	77888818	71014038	880CC906	9704A80D	A80280FF	A8047702	*. . . . . . . . . I. . . . . *
0EF80	8000A802	80FF4088	41010000	60300068	C3E7C4D2	C6D4D940	B820EAE	800CBF20	*. . . . . . . . . CXDKFMR . . . . *
0EFA0	00083517	75B09836	351FB840	4B9ABE21	7B5C9802	A81C6D00	391CB102	8812B103	*. . . . . . . . . . *
0EFC0	880EB100	880AB900	F3580000	100780FF	A80AB900	F3580000	080680FF	A80E4288	*. . . . . 3. . . . . 3. . . . *
0EFE0	B900F358	00001002	248880FF	A857BC20	B820F24E	3513882C	3D19CD02	A81CDD9A	*. . 3. . . . . . . . . 2. . . . *
0F000	BC00F02E	B7FF8808	BC00F0DA	EC00F110	BC00F128	BC00F15C	A808B920	3007B840	*. . 0. . . . . 0. . . . 1. . . . 1. . . *
0F020	0000A808	B9203007	B8400000	A83F87FF	3D1CB501	8802A826	6D39DD82	A8048701	*. . . . . . . . . . *
0F040	A81A3D19	ED02A804	8701A810	B920F3D0	14821792	B900F358	50000815	A84CB502	*. . . . . . . . . 3. . . . . 3. . . . *
0F060	881C3D19	ED02A804	8701A810	B920F3D0	14821792	B900F358	5000080C	A82C6D39	*. . . . . . . . . 3. . . . . 3. . . . *
0F080	DD82A804	8701A822	D0ADD1C	3D19ED02	A8048701	A810B920	F3D01482	1792B900	*. . . . . . . . . 3. . . . . *
0F0A0	F3585000	080CA802	8702B7FF	882AA810	00000000	0000F0D6	BF20F201	B800F0D6	*3. . . . . . . . . 00. 2. . 00*
0F0C0	B84020B6	0000F1A8	00004001	00300000	F0B00000	F1AC3F9C	40886D2A	D580E59F	*. . . . . 1. . . . . 0. . . . 1. . . . N. V. *
0F0E0	6DAA60A1	60A3652D	3C9D3D9E	652F3C9F	3DA06531	3CA13DA2	65333CA3	3DA4BD20	*. . . . . . . . . . *
0F100	000D3597	86173E83	6D39E5EF	6DB94088	B7028802	A8106D39	F5E09806	84036CBD	*. . . . . V. . . . . 5. . . . *
0F120	D540E5DF	6DB94088	65273711	75B08818	BA00F14A	6C387C80	67278808	BA00F14A	*N V. . . . . . . . . 1. . . . . 1. *
0F140	55A87C80	371167A7	40880F14	880477F8	FF85BD21	7A406518	57882088	3F193D1C	*. . . . . . . . . 8. . . . . *
0F160	DF94B501	8802A80E	B8404F08	17888804	B8400509	A81EBF21	97E477E8	9802A808	*. . . . . . . . . U. Y. . . . *
0F180	B84010A9	00C2A80C	B8404F08	17888804	B8400509	40884101	00000000	60280529	*. . . . . B. . . . . . . . . *

0F1A0	C3E7C4C2	C1D7C840	B820FBC6	3D18CD02	A808B920	3007B840	00003511	37133791	*CXDBAPH...F.....*
0F1C0	35933D18	D580D503	3D988500	3D9A3D19	F5A0880C	DD82A804	8720A802	8700A808	*...N.N.....5.....*
0F1E0	B8400509	33A88710	A8434101	00000000	00000000	60290069	C3E7C4C3	D9E2D740	*.....CXDCRSP*
0F200	B8210A48	3D18CD62	31110C14	85F51E0	8802A804	8580A81A	3C0CDC02	A8048500	*.....*
0F220	A810EC02	A8048540	A808B920	3012B840	00003C1B	B8402170	0000F270	0000B100	*.....2.....*
0F240	8802A80C	BE219C60	B8402158	0008A81A	B5808802	A80AB900	F3580001	080CA80A	*.....3.....*
0F260	B8402170	00010948	0000A86D	E1FC15A8	B820F23E	BF20F2A0	7101E1FC	51B0880E	*.....2..2.....*
0F280	B1FC8806	9704A811	A8028110	A80E7502	8802A806	15888110	A8028100	A82F8818	*.....*
0F2A0	31410BF8	32410C40	0D410C90	0E410D20	11010DB0	12010D60	1180E9F0	1280FA28	*...8... ..0....*
0F2C0	A080F2F0	A1410EC8	51800000	52800000	FFCD7E3	C6500503	00000000	00000000	*...20...H.....PTF.....*
0F2E0	62850364	C3E7C4C2	E2C3D940	D2802A9C	B820F24E	6D2A3C19	CD82A804	EC02A838	*.....CXDBSCR K....2.....*
0F300	D5406DAA	B8402170	0000F1A8	0000B700	8802A816	B8402170	000CF520	0000B700	*N... ..1.....5.....*
0F320	8806B840	050933A8	A80CB720	8802A806	B8400509	33A8A808	B900F358	00010815	*.....3.....*
0F340	A8534101	00000000	00000000	60290028	C3E7C4C2	E2C4C640	3C0EEC0A	B8400509	*.....CXDBSDF.....*
0F360	33A88702	A85CD40C	3C8E3519	CC02A80A	B8400509	33A88702	A8481D01	FD0AB840	*.....M.....*
0F380	21700000	F1A80000	33888834	3D19D510	3D993D18	D5043D98	BF00F3E6	1D01FD82	*...1.....N.....N.....3W.....*
0F3A0	A818158E	B8404F08	88088740	B8400509	A8028701	33A85198	A8048700	5528A802	*.....*
0F3C0	87021E00	FE849104	A8029106	C670CE86	BC200000	A800DE06	BD200000	A800DE84	*.....F.....*
0F3E0	FE200000	1088B840	0B08BD20	00005588	9802A806	B8406558	30813C1B	3C9F3C1C	*.....*
0F400	3CA03C1D	3CA11503	3C9B3D9C	1C00FC86	BD200000	A8021505	3C9D3D9E	3D18F560	*.....5.....*
0F420	981C85FF	0C143411	54E09802	A80C3413	54E09802	A8048507	A802850A	A8028508	*.....*
0F440	84003597	950A3D83	70884101	00000000	00000000	60290063	C3E7C4C3	C5D9D740	*.....CXDCERP*
0F460	B8400F78	338888A4	3D0DE50F	9802A896	3C0EEC06	B8400509	A88A3C18	F4809880	*.....V.....4.....*
0F480	B502880A	A802A806	B5038802	A81AB502	8802A80A	B900F358	00018002	A808B900	*.....3.....*
0F4A0	F3580001	800DA856	B5018802	A80AB900	F3580001	8004A846	B5048802	A80AB900	*3.....3.....*
0F4C0	F3580001	800CA836	B5078802	A828B840	21700000	F1A80000	33888818	849B8500	*3.....1.....*
0F4E0	35A13D19	D5103D99	B8404F08	9802A804	B8400509	A808B920	3001B840	0000A804	*...N.....*
0F500	B8400509	A804B840	4F08A8AD	B8403500	41010000	60290065	C3E7C4C3	C9C5C840	*.....CXDCIEH*
0F520	B820C4CC	BE219C60	6F39F7E0	982ABC00	F562B700	8802A81E	3D18E5A0	8802A812	*...D.....7.....5.....V.....*
0F540	6C2AE4C0	B4C08804	8720A804	BC00F59A	A804BC00	F59AA808	B8400509	33A87728	*...U.....5.....5.....*
0F560	A8433D18	E5608808	A802A804	DD02A826	3D0FF5F0	B5108802	A8186527	311115B0	*...V.....V0.....*
0F580	8802A80E	65253113	15B08802	A8048700	A8028710	A8028710	40883D18	E5A08802	*.....V.....*
0F5A0	A8086521	950165A1	3595B840	4F088804	8740A804	870033A8	40884101	00000000	*.....*
0F5C0	00000000	60290066	C3E7C4C3	D7E2C940	B8400F78	33888802	A808B920	3000B840	*.....CXDCPSI.....*
0F5E0	0000BF00	F6003388	8812BF00	F62E3388	880AB840	21700000	F6800000	B8403500	*.....6.....6.....6.....*
0F600	3D18CD02	A808B840	050933A8	A81E2C39	F4E08818	E5603C1B	B5608802	A808B411	*.....4...V.....*
0F620	8802A802	A806B840	050933A8	70883D18	E5608808	A802A804	DD02A830	3C1BB560	*.....V.....*
0F640	8802A804	B4118820	35132127	51B08802	A8048100	A810B920	F3D01792	B900F358	*.....3.....3.....*
0F660	10018005	8110A802	8100A810	B920F3D0	1792B900	F3581001	10078110	70880000	*.....3.....3.....*
0F680	B820F5FC	3D18E560	DD02A826	2C2A3D1B	B5118808	A802A804	CC02A80C	B8402170	*...5...V.....*
0F6A0	0000F200	0000A808	B900F358	00010814	A93E2523	95013715	75B0880A	B900F358	*...2.....3.....3.....*
0F6C0	00012001	A82A25A3	2D2ACD02	A81ACD82	A80CB840	21700000	EEA00000	A808B900	*.....*
0F6E0	F3580001	2005A808	B900F358	00010814	A8734101	00000000	00000000	60290067	*3.....3.....*
0F700	C3E7C4C3	D7E2D640	618A3085	308D3109	A10A995A	351715B0	8802A952	BD219C60	*CXDCPSO.....*
0F720	5F39F7E0	88205725	351175B0	8802A814	3E18E660	B6608802	A80A3E1B	B6118802	*...7.....W.....*
0F740	A802A802	A93E3511	GD148804	55F8FD85	BF217A40	471855C8	7D005598	5598BF21	*.....8.....H.....*
0F760	7A505798	35110814	04687101	D912C802	A8267702	710151B0	9802A840	A91CA816	*.....R.H.....*
0F780	C99E7702	710151E0	99107103	51A8982C	558898B0	A826600A	8101BF00	F8AE600A	*I.....8.....*
0F7A0	62926606	7202E900	AA38880A	649A2488	BF00F8AE	641A6602	6212600A	62926606	*.....8.....*
0F7C0	380E0108	ECF0B010	8812618E	B920F7D8	618A8121	B800A49A	8106A862	55985598	*.....0.....7Q.....*
0F7E0	57987206	7804388C	E832D828	B0008802	A8B00812	D802A81A	3818E060	B0208802	*.....Y.Q.....Q.....*
0F800	A810381B	B0518806	B0528802	A804BD00	0000A806	BF20003C	7298A810	35130814	*.....*

0F820	04685580	8806BF20	00107298	F988B900	96320042	A806B900	96320062	11C86602	*.....9.....H..*
0F840	6212600A	6606380E	E0F0B000	8812618E	B920F85C	618A8121	B800A49A	8106A80A	*.....0.....8.....*
0F860	6292B900	9C926212	11C86602	600A6606	618EB920	F87E618A	8121B800	A49A8104	*.....H.....8.....*
0F880	6602600A	6606618E	B920F894	618A8121	B800A49A	11C86602	600A8101	BF00F8AE	*.....8.....H.....8..*
0F8A0	600A8101	BF00F8AE	66026212	600A398D	6606618E	B920F8C0	1482B900	962C0842	*.....8.....8.....*
0F8C0	00000000	66027088	41010000	60280473	C3E7C3D7	C3E3C940	B820EECE	D90CB840	*.....CXCPCTI....R..*
0F8E0	21700000	ED880000	A80E2F12	CF0CF760	9812F703	9818A820	A823B900	F3580000	*.....7...7.....3...*
0F900	0815A80D	E900F358	00G00818	A817B900	F3580000	0801A821	BE219C60	61299101	*.....3.....3.....*
0F920	61A92E13	CE82A808	D7802F92	8503A816	B8401081	0082D740	2F92B840	21700001	*.....P.....P.....*
0F940	25300000	33A8A851	50010000	60720439	C3E7C4D2	C1D3D740	B8401900	63016703	*.....CXDKALP....*
0F960	73B08802	A80486FF	A80C7780	8802A804	86F0A802	86006388	B6FF8806	B6008802	*.....0.....*
0F980	A804BE00	F996B6F0	8806B600	8802A804	BE00F9D6	A83F9304	93043501	B4FF8834	*.....9..0.....90...*
0F9A0	CC02A806	3202A811	A804CC82	A8173402	41258802	A8084D26	8802A802	A827B840	*.....*
0F9C0	20B60000	C3300000	64050030	0000C358	A83BA802	60888701	93043501	B4FF8834	*.....C.....C.....*
0F9E0	CC02A806	3202A811	A804CC82	A8173402	41238902	A808492D	8802A802	A827B840	*.....*
0FA00	20B60000	C3300000	64050030	0000C37E	A83BA802	60884101	00000000	60300226	*.....C.....C.....*
0FA20	C3E7C4D2	D9C4E240	B8200000	BC00FA5E	33888828	BC00FA76	33888820	6488BE21	*CXDKRDS.....*
0FA40	7A60B840	21700000	F9580C05	46886F2A	E73F6FAA	BC00FA8A	BC00FAE8	A8376F2A	*.....9.....X.....Y...*
0FA60	CF123E19	EE0EB920	F3D01482	B900F358	40018005	40886729	880EB920	F3D01482	*.....3.....3.....3...*
0FA80	B900F358	4001081A	4088B840	21700000	F1A80000	B7008802	A842860E	3E83BF20	*..3.....1.....*
0FAA0	00043797	A8120000	00000000	00000000	BC200000	B8000000	B84020B6	0000F520	*.....5.....*
0FAC0	00000801	00300000	FAA80000	F524B700	8808B920	3005B840	0000A80A	B7208802	*.....5.....*
0FAE0	A804B840	05094088	076A7701	8802A80A	BE219C60	6F39D710	6FB94088	41010000	*.....P.....*
0FB00	00000000	60290005	C3E7C4C2	C4D7C840	B8200000	D90CB840	21700000	E7400000	*.....CXDBDPH....R..X..*
0FB20	A8622F12	CF02A804	CF82A816	CF0AB900	F3580001	0817A8C8	B900F358	00010818	*.....3.....3.....*
0FB40	A8422F13	CF82A824	2F15CF16	CF942F12	E77F2F92	BC219C60	4729A701	47A98503	*.....X.....*
0FB60	A808B900	F3580001	081AA818	BC00FDD8	3388880A	B900F358	0001081A	A8062F12	*..3.....Q.....3.....*
0FB80	E77F2F92	A8775001	00000000	60720440	C3E7C4D2	C4D3D740	B820EEE2	33888856	*X.....CXDKDLP...S...*
0FBA0	B500882C	BF200003	57183797	970A3F83	B8400B88	8806B840	05103081	R8402170	*.....*
0FBC0	0000F1A8	0000B720	8802A804	BC00FBF8	33888822	B8402170	0000F520	0000B700	*..1.....8.....5.....*
0FBE0	8814B710	8802A80A	B9203005	B8400000	A804BC00	FBF8A861	B8400509	33A84088	*.....8.....*
0FC00	41010000	60300069	C3E7C4D2	C6D7E740	B8401900	1280B920	FC681081	8001B840	*.....CXDKFPX....*
0FC20	03340000	FC68BB20	FC683306	3085BE21	9C60870A	3F82871C	3F8E8700	3F8F6727	*.....*
0FC40	37916725	37933095	3097870B	3F988700	3F993F9A	87013F9B	87023F9C	2180399D	*.....*
0FC60	309F8700	3FA0A859	00800001	0001B4B4	41010000	60300228	C3E7C4D2	D9C7D540	*.....CXDKRGN...*
0FC80	B820FDA8	39203517	A51D8802	A824B101	8802A81E	BF2079B2	7D9466A8	BC00FCCC	*.....*
0FCA0	85FF7D94	66888806	B8400520	30818503	A8185508	880AB900	F3580000	1002A808	*.....3.....*
0FCC0	B900F358	0000080C	5528A84D	32883C03	A4139321	35107530	BC876688	8802A812	*..3.....*
0FCE0	B8400B40	A80CBE20	00006388	3C039304	A81F23E8	BF2079B2	40884101	00000000	*.....*
0FD00	00000000	60300435	C3E7C4D2	E2E3C440	B820FDB4	38213922	BE206F48	66888804	*.....CXDKSTD...*
0FD20	61F7A80A	B900F358	0000080C	8500A821	41010000	60300284	C3E7C4D2	E2C3C440	*..7...3.....CXDKSCD...*
0FD40	B8400F78	33888824	B8402170	0000F520	0000B700	8814B710	8802A80A	B9203007	*.....5.....*
0FD60	B8400000	A804B840	0509A808	B9203000	B8400000	B8403500	41010000	60300070	*.....*
0FD80	C3E7C4D2	C6D8E740	B820EECE	3920B101	8806B105	8802A81E	B1018802	A80CB840	*CXDKFQX.....*
0FDA0	21700000	FC800000	A80AB840	21700000	FD100000	A80AB900	F3580000	080C8500	*.....3.....*
0FDC0	A83B4101	00000000	00000000	60300294	C3E7C4D2	E2E2E54C	61889104	1F00F780	*.....CXDKSSV....7..*
0FDE0	9826B7FF	8822F704	8804F708	981AF740	9804A81B	A8101502	571FCE02	A808DE02	*.....7...7...7.....*
0FE00	A804FE82	A82DA802	55A85588	8802A83A	2F12D720	2F92B840	10810082	26266707	*.....P.....*
0FE20	8802A816	81801008	B8402B00	A802A80A	4588BC00	FE4C5488	A80E2E04	CE0AB840	*.....*
0FE40	21700000	FE700000	33A84088	2E04CE0A	B9203006	B8400000	A8004088	41010000	*.....*
0FE60	00000000	60300052	C3E7C4D2	C4D3D7F1	B8200000	2F12D720	2F92BF20	FEA0278A	*.....CXDKDLP1.....P...*
0FE80	26268683	6E816083	B8402300	A81F4101	00000000	60290105	C3E7C4C5	C4D5C940	*.....CXDEDNI...*



0FEA0	2F12E7DF	2F92BF21	2088278A	2D13CD82	A8242D15	E57F2D95	869CB840	21700001	*.X.....V.....*
0FEC0	16600000	2D15CD82	A80AB840	21700001	25300000	A80ABE21	9C606729	A70167A9	*.....*
0FEE0	B8400F00	3388880C	8503B840	21700000	FB980000	0909D902	A80AB840	21700001	*.....R.....*
0FF00	6E980000	B8403580	41010000	60290106	C3E7C4C5	C4D5E340	2F12E7BF	2F92B840	*.....CXDEDNT..X..*
0FF20	0F003388	8870BF21	2088278A	26266707	B6008802	A81AB79E	8802A814	2F12D780	*.....P..*
0FF40	2F928730	6F816083	B8402300	8503A82A	BE219C60	6729A701	67A98702	44A8B840	*.....*
0FF60	20B60000	C3300000	04050030	0000C35C	B900F358	00008002	8500B840	21700000	*.....C.....C...3.....*
0FF80	FB980000	0909D902	A80AB840	21700001	6E980000	A808B920	300DB840	0000B840	*.....R.....*
0FFA0	35804101	00000000	00000000	60290107	C3E7C4C5	C5D5E340	B820EECE	241A4F12	*.....CXDEENT.....*
0FFC0	CF02A842	41261E01	B6308802	A82E1E07	4F04B600	8804CF02	A822271F	F7C69812	*.....7F..*
0FFE0	D6A1D740	279F2F3B	B7019804	88022FAE	A808B900	F3580000	0818A808	B900F358	*O.P.....3.....3..*
10000	00000809	A808B900	F3580000	0817A859	41010000	60340310	C3E7C4D2	C3D5E340	*.....3.....CXDKCNT..*
10020	B821225E	1288BC01	00BC2188	521F8100	B0008802	A80ABC01	00D8BC01	00F8A802	*.....Q...8..*
10040	81FFB100	88108703	3FA0B000	8802A806	2780D6A0	7280A818	00000000	00010086	*.....O.....*
10060	B9200000	BA200001	BD218C1C	B8010086	B84020B6	0000F520	00001301	00300001	*.....5.....*
10080	00580000	F524B700	8808B920	3005B840	0000B000	8802A81E	B100881A	26805288	*.....5.....*
100A0	8701B840	20B60000	C3300000	30050030	0000C35C	6280529F	33A8A89D	8180B840	*.....C.....C.....*
100C0	21700000	FC102205	87133F83	BF200009	3797571D	379F4088	2780E7BF	E6BFCF04	*.....X.W.....*
100E0	E65EA810	0909D902	A808521A	29179101	29978100	72804088	6707E6F1	8802A81E	*W.....R.....W1....*
10100	B7BD8814	B7AD8804	81FFA80A	87023FA0	2780D6A0	7280A804	87013FA0	A80281FF	*.....O.....*
10120	40884101	00000000	00000000	60340308	C3E7C4D2	C3D5C440	B8200000	241A4F12	*.....CXDKCND.....*
10140	CF02A846	4E13CE16	CE82A834	41261E01	1F07B630	8802A828	B7008802	A822271F	*.....*
10160	F7849812	D6A1D780	CF82A802	D640279F	23A633A8	A808B900	F3580000	0818A808	*7...O.P.....O.....3.....*
10180	B900F358	00000809	A808B900	F3580000	0817A85D	41010000	00000000	60340315	*.3.....3.....*
101A0	C3E7C4D2	C4C3E340	B82109E0	BE010208	3C12E4F3	D4083C92	34882C4E	4688B840	*CXDKDCT.....U3M..*
101C0	0BA08824	BC8B6081	BE010238	D244ED82	A804BE01	1A08B840	4C41B100	8804BE01	*.....*
101E0	025E7388	A82DA81E	3D12E5F3	2D04CD92	2D24ED82	A804BE01	1A08B840	4C41B100	*.....V3N.....*
10200	8804B840	0509A861	37882C4E	8501B840	0B28BF20	00008804	9501A80F	54389808	*.....*
10220	B9203009	B8400000	B4008802	A808B920	3008B840	00006088	8001B840	030E370A	*.....*
10240	70853513	E4F37593	35157595	35177597	840E8506	7583708D	B8400655	60883C12	*.....U3.....*
10260	E40CB408	8802A80C	84023C8D	B8401081	00C2A804	B8400509	60884101	00000000	*T.....B.....*
10280	00000000	60290030	C3E7C4C2	E2C5C740	B821043E	2D24ED82	A80AB840	21700001	*.....CXDBSEG.....*
102A0	19600000	3D0EED02	A8283D18	CD02A822	BE010320	3388881A	BE010350	BE01036C	*.....*
102C0	3D0E4C2D	FD82A80A	CC02A806	B8400509	33A83388	88484D2C	EDBAB840	4F089802	*.....*
102E0	A830B101	8802A80A	B900F358	00018004	A820B102	880AA802	A806B103	8802A80A	*.....3.....*
10300	B900F358	00018002	A808B920	3003B840	0000A80A	B8402170	00000000	0000A891	*.3.....5.....*
10320	4D2F881C	3D19FD82	A8164D2D	E5BF4DAD	85004DB0	45889510	57018904	B8401D18	*.....V.....*
10340	3D19B501	8802A806	B8400509	33A86088	4D2D3C0E	DD02A80C	FC8A3C19	D401E5DF	*.....M.V..*
10360	4DA DA804	3C19E4FE	3C996088	3D18E560	B5608802	A8663D18	ED82A804	3C1FA802	*.....U.....V.....*
10380	3C1BB431	8802A826	4C2CE4EF	3D19DD9A	D4804D2D	E5BF4DAD	85004DB0	2D24ED82	*.....U.....M...V.....*
103A0	A80840BE	B9200001	41B94CAC	A82EB432	8802A808	4C2CE477	4CACA820	B4A18802	*.....U.....*
103C0	A81A4C2D	E47F4CAD	2C24EC82	A80E40BB	B9200001	41B94C2D	E4E14CAD	60885001	*.....U.....U.....*
103E0	00000000	61020078	C3E7C4C3	C2C9C140	B8400F78	33888864	2E24EE82	A804BF01	*.....CXDCBIA.....*
10400	19C0BF01	0460B100	8802A850	B8402170	00010510	00002E4D	CE02A80E	3388880A	*.....*
10420	B8402170	00011CE0	00003388	882EB701	8802A80C	B8402170	00010290	0000A81C	*.....*
10440	B7028802	A80CB840	21700001	06280000	A80AB840	21700001	06D00000	B8403500	*.....*
10460	3D0DE50F	8858B502	880AA802	A806B503	8802A840	3D12E50C	B50C880C	B5088808	*.V.....V.....*
10480	B8400509	33A8A82C	2D24ED82	A80C3515	3C953D94	3D05E5FE	3D85B921	0E54178A	*.....V.....*
104A0	B9010E00	10008002	33888804	8100A802	8110A808	B9203001	B8400000	A8503D14	*.....*
104C0	3C15B500	8822B400	8802A81C	B9210E54	178AB901	0E001000	8005B840	21700001	*.....*
104E0	05584005	8110A826	B5008820	B501881C	B9210E54	178AB901	0E001000	8004B840	*.....*
10500	21700001	05584005	8110A802	81007088	B8210416	36883513	E40FD410	658FB840	*.....U.M....*

10520	21700001	05800000	33888824	35176595	3503A404	95046583	55A86388	69031518	* .....	*	
10540	B8400B20	BE200000	8802A811	A50A3597	A843E738	77787778	B8401900	33888818	* .....	X.....*	
10560	2924E982	A804BF01	1A08B840	4C411188	8804B840	050933A8	A8232298	22982411	* ..Z.....*	*	
10580	B8210528	3915B100	8802A810	BD219C60	55276591	251D6593	8703A874	2D24DD02	* .....	*	
105A0	A8282456	4D01CD82	A81C4800	10388810	CD0ABD20	00045498	A817A802	55A8A804	* .....	*	
105C0	44024525	A80255A8	A812251D	1518B840	4BDBBC21	88848802	A80255A8	55888802	* .....	*	
105E0	A814B901	0E000000	8005B840	21700001	05580004	A81A6593	3D148802	A80CBD21	* .....	*	
10600	9C605527	65918702	A806452B	65918701	A8935001	00000000	00000000	61450396	* .....	*	
10620	C3E7C4C3	C2C9C440	B8210450	2D24ED82	A80AB840	21700001	18780000	3D0EED02	*CXDCBID .....	*	
10640	A8403D18	CD02A83A	E560B560	8802A832	3D18ED82	A8043C1F	A8023C1B	B40D8802	* .....	V.....*	
10660	A80E4C28	E4FF3D19	DD82D480	4CA8A812	B40E8802	A80C4C28	E4F73D19	DD82E47F	* ..U.....M.....U7.....U..*	*	
10680	4CA8B840	4F089802	A830B101	8802A80A	B900F358	00018004	A820B102	880AA802	* .....	3.....*	
106A0	A806B103	8802A80A	B900F358	00018000	A808B920	3003B840	0000A895	41010000	* .....	3.....*	
106C0	00000000	60290052	C3E7C4C3	C2C9B340	B821045C	3D18CD02	A83AE560	B5608802	* .....	CXDCBIL .....	V.....*
106E0	A8323D18	ED82A804	3C1FA802	3C1BB411	8802A80E	2C4CE4BF	3D19DD82	D4802CCC	* .....	U.....U.....M.....*	*
10700	A812B412	8802A80C	2C4CE4DF	3D19DD82	E47F2CCC	B8404F08	9802A830	B1018802	* .....	U.....U.....*	*
10720	A80AB900	F3580001	8004A820	B102880A	A802A806	B1038802	A80AB900	F3580001	* .....	3.....3.....*	*
10740	8002A808	B9203003	B8400000	A87F4101	00000000	60290053	C3E7C4C3	C2C9D740	* .....	.....CXDCBIP ..*	*
10760	2488BA20	001024A8	B8400F78	338888F8	44284D2E	B500880A	B8402170	00010870	* .....	.....8.....*	*
10780	00003388	88DC3213	462B3F0E	E7FCB71C	8802A882	3818C820	8802A81C	C882A818	* .....	.....X.....H.Q.....H.....*	*
107A0	42222824	E882A804	311541B7	B8402170	0000F200	0000A85C	62B08802	A846C836	* .....	.....Y.....2.....H.....*	*
107C0	4D2CCD02	A81E4222	2824E882	A80AB840	21700001	1A500000	B8402170	000108B0	* .....	.....Y.....*	*
107E0	0000A810	B920F3D0	1482158A	B900F358	60008005	A80C4222	B8402170	00010948	* .....	3.....3.....*	*
10800	0000A810	B920F3D0	1482158A	B900F358	60008005	A828E7F0	B7108812	B920F3D0	* .....	3.....3.....X0.....3.....*	*
10820	1482158A	B900F358	60008006	A810B920	F3D01482	158AB900	F3586000	80073388	* .....	3.....3.....3.....*	*
10840	881A3919	FC02A804	D101A802	E1FE3999	4222B840	21700001	02900000	B8401F38	* .....	J.....*	*
10860	A804B840	1FB8A804	B8401FB8	B8403540	B8210782	3818492D	3D0EC82E	FDACC982	* .....	.....H.....I.....*	*
10880	A80AB840	10B900C4	33A8A81E	4F2E4D30	95015738	8802A802	D4024F2F	57388802	* .....	.....D.....M.....*	*
108A0	A806D140	49AD5528	4DB0A83D	00000488	B82107E2	3819F882	A850F0A0	8802D884	* ..J.....S.....8.....0.....Q.....*	*	
108C0	F0A09840	8001B840	030E360A	31153211	37136085	61956293	6791800A	810D6183	*0.....*	*	
108E0	801C688E	00288103	6197688F	B84A8083	81016199	B8404F20	8808B920	3010B840	* .....	.....*	*
10900	0000A806	492DD120	49AD3919	FC02A804	D101A802	E1FE3999	4222B840	21700001	* .....	J.....J.....*	*
10920	09480000	A877D7E3	C6500504	00000000	00000000	00000000	63430413	C3E7C4C3	* .....	PTF.....CXDC*	*
10940	C2D6C140	000009B6	B8210CFC	3D0EE5F0	B5108802	A88E2D4D	CD02A80A	B8402170	*BOA .....	V0.....*	*
10960	00012000	00003388	88783688	35039404	A5046583	31173515	659785FF	0C143713	* .....	.....*	*
10980	57E08802	A8048500	A8028501	6D95251D	371157A0	8802A804	6F94A804	4F316F94	* .....	.....*	*
109A0	350FE40F	D4206593	26512D24	ED849106	A8029102	16B0981E	ED82A804	BE011A08	* ..U.M.....*	*	
109C0	B8404C41	B100980C	880A8402	3C8DB840	108100C2	A80AB840	21700001	01A80000	* .....	.....B.....*	*
109E0	33A8A808	B9203007	B8400000	A8A74101	00000000	60290057	C3E7C4C3	C2D6C440	* .....	.....CXDCBOD ..*	*
10A00	2488BE21	9C60B840	0F783388	88A83D0E	3C193918	E5FCB51C	8802A882	F4019874	* .....	.....V.....4.....*	*
10A20	62273613	62B08802	A8604222	D902A81A	C982A816	2924E982	A8043115	41B3B840	* .....	.....R.....I.....Z.....*	*
10A40	21700000	F2000000	A83ECD32	4928F180	980AB900	F3580001	8005A820	2924E982	* .....	2.....1.....3.....Z.....*	*
10A60	A810390E	F982A806	311541B3	A8043115	41B5B840	21700001	09480000	A80AB840	* .....	9.....*	*
10A80	21700001	09480000	A808B900	F3580001	8005A808	B900F358	00014008	A818E5F0	* .....	3.....3.....V0.....*	*
10AA0	B510880A	B900F358	00018006	A808B900	F3580001	8007B840	35004101	00000000	* .....	3.....3.....*	*
10AC0	00000000	60290058	C3E7C4C3	C2D6D340	BD20003C	52A8BE21	9C60B840	0F783388	* .....	.....CXDCBOL ..*	*
10AE0	888E2D24	3C1BED82	A812B411	880EB412	880AB900	F3580001	1007A874	3D0E3C18	* .....	.....3.....*	*
10B00	E5FCB51C	8802A850	37136127	17B08802	A83CCC82	A810DC02	A80CB840	21700000	*V.....*	*	
10B20	F2000000	A826CC1A	2D4CCD0A	B900F358	00018005	A80AB840	21700001	09480000	*2.....*	*	
10B40	A80AB840	21700001	09480000	A808B900	F3580001	8005A818	E5F0B510	880AB900	* .....	3.....3.....V0.....*	*
10B60	F3580001	8006A808	B900F358	00018007	B8403500	41010000	00000000	60290059	* .....	3.....3.....*	*
10B80	C3E7C4C3	C2D6D740	BE2005A8	618A6606	30853903	3812E808	B1069804	8802A808	*CXDCBOP .....	Y.....*	*

10BA0	F802A816	B1099812	3912E1F0	B1208802	A8048100	A8028106	A8028104	398D9814	*Y.....0.....*
10BC0	618EB921	0BCE1582	B900962C	08420001	8C1CA80E	618EB921	0BE2618A	8121B800	*.....S.....*
10BE0	A49A6602	600A5001	00000000	61020075	C3E7C3D7	C3C2C940	B820F24E	4D2CF590	*.....CXPCBI ..2...5.*
10C00	98043613	46AB3113	472B71B0	8802A812	D5104DAC	4222B840	21700001	09480000	*.....N.....*
10C20	A808B900	F3580001	0805A835	41010000	00000000	60290033	C3E7C4C2	E2C9C140	*...3.....CXDBSIA *
10C40	B8200000	492CF180	881E3113	472B71B0	8802A814	4F2CD708	4FAC4222	B8402170	*.....1.....P.....*
10C60	00010948	0000A808	B900F358	00018005	A833D7E3	C6500501	00000000	00000000	*.....3.....PTF.....*
10C80	62050447	C3E7C4C2	E2E3C140	46166F0F	B820F24E	4D283113	672771B0	8802A860	*...CXDBSTA ..2.....*
10CA0	3C1CB401	8802A82E	85104DA8	4D2CE505	4DAC8500	4DB04D2D	E53F4DAD	BD200010	*.....V.....V.....*
10CC0	4598B840	0FD8BF20	00007788	8806B840	0529A813	A816B402	8802A806	D5104DA8	*...Q.....N.....*
10CE0	A80AB900	F3580001	100333A8	3388880E	4222B840	21700001	09480000	A800A808	*.....3.....*
10D00	B900F358	00018005	A87B4101	00000000	00000000	60290034	C3E7C4C2	E2C9D340	*..3.....CXDBSIL *
10D20	B8200000	31136727	71B08802	A8144F28	D7084FA8	4222B840	21700001	09480000	*.....P.....*
10D40	A808B900	F3580001	8005A82D	41010000	00000000	60290040	C3E7C4C2	E2E3D340	*...3.....CXDBSTL *
10D60	B8200000	31136727	71B08802	A8242F4C	D7202FCC	2F24EF82	A80CB840	21700001	*.....P.....*
10D80	18E80000	A80AB840	21700001	09480000	A808B900	F3580001	8005A83D	41010000	*.....3.....*
10DA0	00000000	60290041	C3E7C4C2	E2E3D740	B820F24E	2D4C3113	6727F5C0	880671B0	*.....CXDBSTP ..2.....5.....*
10DC0	8802A822	D5402DCC	2D24ED82	A80CB840	21700001	190C0000	A80AB840	21700001	*...N.....*
10DE0	09480000	A808B900	F3580001	8005A841	41010000	60290035	C3E7C4C2	E2C9D740	*.....3.....CXDBSIP *
10E00	3C12E0A	B8400509	33A88702	A838D40C	3C923519	CC02A80A	B8400509	33A88702	*.....M.....*
10E20	A824B840	21700001	0F800000	33888814	3D19D510	3D993D18	D5043D98	BF010E62	*.....N.....N.....*
10E40	8700A802	87021E00	FE849104	A8029106	C630DE06	BD200000	A800DE84	BF200000	*.....F.....*
10E60	1088B840	0B08BD20	00005588	9802A806	B8400558	30813C1B	3C9F3C1C	3CA03C1D	*.....*
10E80	3CA11503	3C9B3D9C	1C00FC86	BD200000	A8021505	3C9D3D9E	3D18F560	980E3C15	*.....5.....*
10EA0	8802A804	8510A802	850DA802	850E3D83	70884101	00000000	00000000	60290062	*.....*
10EC0	C3E7C4C3	C5D9C240	B8200000	472DCE02	A85A4588	9510B840	0D58BE20	00008846	*CXDCERB.....*
10EE0	690EF982	A830E840	13A0BA20	00002288	881E290E	F982A806	2688A817	A810B840	*..9.....9.....*
10F00	169C00C0	BA200000	B8400501	A829A804	BD010F36	A80EB840	0FD8BA20	0000B840	*.....Q.....*
10F20	0501A84F	A804BD01	0F36A808	B900F358	00018005	A86FE6E7	E79FD780	47AD8700	*.....3.....WXX.P.....*
10F40	4FB04222	A8120000	00000000	00000000	BD200000	B8000000	B84020B6	00010948	*.....*
10F60	00001001	00300001	0F480001	094C5088	41010000	60290013	C3E7C4C2	D3C3D740	*.....CXDBLCP ..*
10F80	B8200000	3F023C12	E4F03D18	CD08A802	A804B420	8802A804	B70E8808	B9203007	*.....U0.....*
10FA0	B8400000	3D143F15	3F943D95	3D18D583	3D988500	3D9A3D19	F5A0880C	DD82A804	*.....N.....5.....*
10FC0	8720A802	8700A808	B8400509	33A88710	A8534101	00000000	00000000	6C290068	*.....*
10FE0	C3E7C4C3	D9E2C240	B820EECE	BC0110B0	77888802	A89C3788	3488851C	97200907	*CXDCRSB.....*
11000	95025138	98068804	9702A810	B8400B10	BF200000	88068500	74889704	88427188	*.....*
11020	7701B840	4EBBFF21	8CEC882E	67827722	8802A820	670272A2	17886901	D1406981	*.....J.....*
11040	A401880A	B9200004	1698A84F	A80477A8	8503A804	BF200801	A804BF20	0806A804	*.....*
11060	BF200806	7788882A	A8120000	00000000	00000000	BF200000	B8000000	B84020B6	*.....*
11080	00011160	00004001	00300001	106C0001	11647788	8818B920	F3D01792	B900F358	*.....3.....3.....*
110A0	10000000	33888806	3E9B3F9C	55A8A8C9	D902A82E	C882A82A	E882A826	26566D01	*.....IR..H..Y.....*
110C0	CD9A3C20	88102D54	45389804	77A8A804	BF200812	A804BF20	080CA804	BF200801	*.....*
110E0	A804BF20	080C4088	41010000	60290078	C3E7C4C4	C1D5C140	B8200000	D902A81A	*.....CXDDANA ..R.....*
11100	C882A816	E882A812	26566D01	CD82A804	77A8A804	BF200809	A804BF20	080C7788	*H..Y.....*
11120	881AB920	F3D01792	B900F358	10000000	33888806	3E9B3F9C	55A8A80C	B8402170	*...3.....3.....*
11140	00011160	00008503	A8534101	00000000	00000000	60290082	C3E7C4C4	C6D5C140	*.....CXDDFNA ..*
11160	B8200000	27567D01	CD82A810	760260A2	7D01E5BF	7D81CD04	9704A817	A81F4101	*.....V.....*
11180	00000000	60290083	C3E7C4C4	C6D5F140	B820EECE	9D02A844	C882A840	E882A83C	*.....CXDDFN1 ..R..H..Y.....*
111A0	55A877A8	3E293F2A	71880D07	56883C22	0D0DCD0A	EC82A806	BF20080C	A81CEC82	*.....*
111C0	A804A702	A802A706	980C67B0	980821D1	718877A8	A804BF20	0820A804	BF20080C	*.....J.....*
111E0	7788881A	B920F3D0	1792B900	F3581000	00003388	88063E9B	3F9C55A8	A82CE406	*.....3.....3.....U.....*
11200	2D24E5F8	45582DA4	61A89806	9701A809	A8022FCE	3D242DAE	3D252DB1	2D35E5EF	*..V8.....V.....*

11220	3C26E410	45582DB5	8503A89D	41010000	00000000	60300293	C3E7C4D2	E2E2D740	*..U.....CXDKSSP*
11240	B820FECE	D902A846	E802A842	E882A83E	26228834	67567D01	CD82A826	710212E8	*...R...Y...Y.....*
11260	880ECD06	9704A813	A804BF20	0820A810	3C216D24	ED82A802	94017C80	2CB177A8	*.....*
11280	A804BF20	081AA804	BF20081A	A804BF20	080C7788	881AB920	F3D01792	B900F358	*.....3.....3..*
112A0	10000000	33888806	3E9B3F9C	55A8A822	3C222CAF	3C232CAE	27889710	3C24FC82	*.....*
112C0	A808B840	1AA800C0	A806B840	1AA800C1	8503A895	41010000	00000000	60300291	*.....A.....*
112E0	C3E7C4D2	E2E2D340	B8200000	D902A83A	C802A836	E882A832	2D15CD02	A812BC00	*CXDKSSL...R...H...Y.....*
11300	FDD83388	8808B900	F3580001	081AA818	CD82A80C	DD8AB840	21700001	2530C000	*.Q.....3.....*
11320	B900F358	00010809	A808B900	F3580001	080CA84D	41010000	00000000	60290074	*.3.....3.....*
11340	C3E7C4C4	C1C2C340	B8200000	3F1DCF02	A80AC780	3F9DBE01	13AAA84C	D902A802	*CXDDABC.....G.....R.....*
11360	E886BF20	080CA824	2912C906	EF200817	A81A2915	D902A806	BF200815	A80EC902	*Y.....I.....R.....I...*
11380	A806BF20	0801A804	BE0113AA	77889802	A816B920	F3D01792	B900F358	10000000	*.....3.....3.....*
113A0	33888804	3E9B3F9C	A8632915	D982A838	3C1DA810	00000000	00000000	BE200000	*.....R.....*
113C0	B8000000	B84020B6	00011708	00002001	00300001	13B40001	170CB700	8806BF20	*.....*
113E0	0801A80A	77A8A8AA	D1202995	25119501	B8404BDB	BD200000	8802A808	B920300B	*.....J.....*
11400	B8400000	39205998	3821C882	A82AA810	00000000	00000000	BE200000	B8000000	*.....H.....*
11420	B84020B6	00012530	00002001	00300001	14100001	2534A856	B9211618	218A2426	*.....*
11440	8001B840	030E350A	950445A2	37889724	74883188	0F079704	71183E23	563014B8	*.....*
11460	8802A80A	B8400B88	B9200004	14984710	5730BE97	24263922	4788A703	7980B920	*.....*
11480	00804183	4880818F	4981B840	23008503	77A86088	41010000	00000000	60290084	*.....*
114A0	C3E7C4C4	C9C1D340	B820FECE	D902A802	E88AB900	F3580000	080CA834	2912C90A	*CXDDIAL...R...Y...3.....I..*
114C0	B900F358	00000817	A8262915	C982A80A	B900F358	00000815	A816D140	2995F1A0	*.3.....I.....3.....J..1..*
114E0	8802A80A	B8402170	00012530	00008503	B84B4101	00000000	00000000	60290075	*.....*
11500	C3E7C4C4	C1C3D740	B821164A	25119501	B8404BDB	BD218C1C	9808B920	300BB840	*CXDDACP.....*
11520	0000571F	D6A1D702	579FBF21	2088278A	26268730	6F816083	B8402300	A8374101	*...O.P.....*
11540	00000000	60330382	C3E7C4E7	C9C4C940	B82122B4	571FE7FD	E6BE579F	6107E0F1	*.....CXDXIDI...X.W...1..*
11560	B1BF8802	A86EB000	8802A868	090A6413	D9844498	44984E03	8184B840	21700C00	*.....R.....*
11580	FC105A05	B8400611	81123983	B9200008	61183197	2711379F	A8160C00	00000000	*.....*
115A0	000115C6	BA218CC4	BD218C1C	B80115C6	B84020B6	0000F520	00001201	00300001	*...P...D.....F...5.....*
115C0	159C0000	F524B700	8808B920	3005B840	0000A82E	8701A814	00000000	00000000	*...5.....*
115E0	BA200000	BD20C000	B8000000	B84020B6	00012400	00001201	00300001	15D80001	*.....Q.....*
11600	240433A8	A8B74101	00000000	60330383	C3E7C4E7	C9C4E340	2915D98A	26266722	*.....CXDXIDT..R.....*
11620	A704B840	0528E1CF	2995869E	B8402170	00011660	00008802	A8102915	D1802995	*.....J.....*
11640	B8402170	00011508	0000B840	35804101	00000000	60290091	C3E7C4C4	E2C3E340	*.....CXDDSCCT*
11660	B8211636	26266907	6804C804	B1E0982A	25888702	B90116C4	2815E0BF	28952812	*.....H.....D.....*
11680	C802A812	E07F2892	BC219C60	4529A501	45A98702	A8028702	A8281638	8802A804	*H.....*
116A0	8700A81E	25119501	B8404BDB	BD200000	9808B920	300BB840	00008701	B90116C4	*.....D..*
116C0	8701A865	A8160000	00000000	00000000	B9200000	BA200000	B8000000	B84020B6	*.....*
116E0	00012400	00000301	00300001	16C80001	24041088	41010000	00000000	60290085	*.....H.....*
11700	C3E7C4C4	C9D6E340	B8200000	B40E8802	A806BC01	1770A818	D902A802	E88AB900	*CXDDIOT.....R...Y...*
11720	F3580000	080CA808	2D15B417	8804A828	A82BCD8A	B900F358	00000816	A818DD82	*3.....3.....*
11740	A808DD06	BC011770	A80287FF	B7008806	E5BF2D95	8503A829	DD0487FF	A804BC01	*.....V.....*
11760	1770B700	8808B900	F3580000	0816A841	81801008	B8402E00	A812B921	17A0218A	*.....3.....*
11780	B8401081	00827728	33A84088	87FF4088	41010000	60290076	C3E7C4C4	C1C4C940	*.....CXDDADI..*
117A0	B8400F00	33888802	A808B920	300DB840	0000868C	A8120000	00000000	00000000	*.....*
117C0	BB200000	B8000000	B84020B6	00011660	00000401	90300001	17B80001	16648802	*.....*
117E0	A8048600	A80286FF	3C1D2D15	B40E8802	A81CE5EF	2D95B600	8802A810	D4803C9D	*.....V.....M...*
11800	B8402170	00011348	00006628	A824B417	8802A806	E5BF6628	A812DD8E	26263488	*.....V.....*
11820	6322A304	B8400508	4388E5DF	E5EF2D95	8503B600	8802A81E	B8402170	0000FB98	*.....V.V.....*
11840	00002915	D90EC982	A80AB840	21700001	25300000	A808B900	F3580001	0822B840	*...R.I.....3.....*
11860	35804101	00000000	00000000	60290077	C3E7C4C4	C1C4E340	B821063C	390E381E	*.....CXDDADT..*
11880	E902A814	C802A810	F982A806	45333595	A8044535	3595A80E	453F3595	E982A806	*Z...H...9.....Z...*

118A0	950145BF	A800A831	41010000	60300521	C3E7C4D7	C9C9D340	B8200000	294CC902	*.....CXDP11L.....J.*
118C0	A816B920	00043197	910A3983	B8402170	0000F1A8	0000A8C8	B900F358	0000081A	*.....1.....3.....*
118E0	B8402170	000106D0	0000A835	41010000	00000000	60290042	C3E7C4C2	E2E3F140	*.....CXDBST1*
11900	B8210DD8	391C381D	B1018802	A82CB001	8802A826	84088540	BF20001D	37987D80	*...Q.....*
11920	9701BC87	B920000D	3197910A	3983B840	21700000	F1A80000	A809B900	F3580000	*.....1.....3.....*
11940	0821B840	21700001	06D00000	A84F4101	00000000	60290036	C3E7C4C2	E2C9F140	*.....CXDBSI1*
11960	B82102A4	390E3818	F982A81E	E902A80A	C802A806	45373595	A80E453F	3595E982	*.....9...Z...H...Z...*
11980	A8069501	45BFA800	A804BE01	1990A831	E902A80A	C802A806	453D3595	A80E4539	*.....Z...H.....*
119A0	3595E982	A8069501	45B9A800	60884101	00000000	60300529	C3E7C4D7	D8C9C140	*..Z.....CXDPQIA*
119C0	3503A404	95043583	30933D16	E50FD520	3D923C17	CC108500	3D94CC88	B9203017	*.....V.N.....*
119E0	B8400000	A8048501	3D94E43F	94013C95	70884101	00000000	00000000	60300520	*.....U.....*
11A00	C3E7C4D7	C6F3F240	35039404	A5043583	3D12E50F	D5303D96	3C143D15	8802A804	*CXDPF32.....V.N.....*
11A20	D440A802	D4C0A4Q1	3C972D4D	CD02A80C	3D16ED82	A8063D05	D5013D85	60885001	*M..M.....N.....*
11A40	00000000	61450398	C3E7C4D7	C6F2F340	B82107D8	3715390E	F982A804	47B7A820	*.....CXDPF23...Q...9.....*
11A60	47BD413B	910171B0	8802A804	47BBA810	B920F3D0	1462158A	B900F358	6C022001	*.....3.....3.....*
11A80	A8334101	00000000	00000000	60300530	C3E7C4D7	D8D6C140	BE2005A8	618A6606	*.....CXDPQOA.....*
11AA0	30853803	3916E908	B0029804	8802A808	F902A814	B0C59810	E1F0B130	8802A804	*.....Z.....Z.....0.....*
11AC0	8100A802	8106A802	8104398D	9814618E	B9211ADC	1582B900	962C0842	00018830	*.....0.....*
11AE0	A80E618E	B9211AF0	618A8121	B800A49A	6602600A	50010000	00000000	61020076	*.....0.....*
11B00	C3E7C3D7	C3C2C9F1	B8211D28	3918C930	492DE92A	E982A810	B920F3D0	1482B900	*CXPCBI1.....I...Z.Z...3.....*
11B20	F3584000	2003A814	380EE00C	E00C8802	A804D108	49AD391A	D180399A	A800A84A	*3...3.....J.....J.....*
11B40	492DE982	A806BE01	1B8CA83E	D982A80C	E1EF49AD	B8400509	33A8A82E	F902A80C	*..Z.....R.....9.....*
11B60	B8402170	00011BC0	0000A81E	3819D882	A818381B	391CBE20	081361B0	8802A808	*.....Q.....*
11B80	492DE1E1	49ADA800	A800A885	3819D8A4	E908D108	E1FB49AD	A818E07F	3898B920	*.....Q.Z.J.....*
11BA0	F3D01482	B900F358	40022003	3818D080	3898A804	E1E149AD	6088419F	4103BD20	*3...3.....*
11BC0	B8200000	45889510	B8400D58	BE200000	8834691A	C926B840	13A0BF20	00007788	*.....I.....*
11BE0	8816791A	C9067688	A815A80A	B840169C	00C0BF20	0000A802	77A8A808	B8400FD8	*.....I.....Q*
11C00	BF200000	A80277A8	3919D982	A832482D	E0FD48AD	73C837C8	73C83388	881CB920	*.....R.....H.H.H.....*
11C20	F3D01482	1792B900	F3585000	0813781B	399B711D	319D781E	389EB840	0529A87E	*3...3.....*
11C40	492DE906	77888802	A8623918	E13F3998	391AD180	399AB920	00033197	91CA3983	*..Z.....J.....*
11C60	31133511	31913593	492DD110	49ADA810	00000000	00000000	BF200000	B8000000	*.....J.....*
11C80	B84020B6	00010948	00004001	00300001	1C700001	094C7388	3388880E	B920F3D0	*.....3.....*
11CA0	1482B900	F3584000	0813A812	B8400509	7388B840	21700001	09480000	33A8A901	*...3.....*
11CC0	D7E3C650	05020000	00000000	00000000	62310491	C3E7C4D7	C2D4F240	00F46602	*PTF.....CXDPRM2 .4.*
11CE0	B821042A	BE219C60	B7018802	A86E4D2C	CD164D28	CD02A808	87026527	3591A806	*.....*
11D00	B8400509	33A8A852	3D0F3C18	492DED02	A836F460	8804F902	A82EF982	A82AA810	*.....4...9...9.....*
11D20	00000000	00011D46	BF218001	B8011D46	B84020B6	00011B08	00004001	00300001	*.....*
11D40	1D200001	1B0CA812	E50CB504	8802A80A	F982A806	E904D108	49ADA800	A87F4101	*.....V.....9...Z.J.....*
11D60	00000000	60300526	C3E7C4D7	D7C3C940	B8212074	3B1A4C2D	CD02A856	EC02A81E	*.....CXDPPCT.....*
11D80	FC1CB920	F3D01482	B900F358	40000813	B8402170	00010290	000033A8	A832FC18	*...3...3.....*
11DA0	BE011DD8	BE200010	4698B840	10A10090	D4024CAD	7388A818	DC92CD90	3D19CD04	*...Q.....M.....*
11DC0	DD02A806	DD84D404	A802D408	E4FD4CAD	A804BE01	1E12A869	8001B840	030E370A	*.....M...M.U.....*
11DE0	800A810E	71837085	310D718D	310F718F	31117191	31137193	31157195	B9200004	*.....*
11E00	7197804B	81807199	8000789A	80F8789B	6088EC02	A80ACD82	A804E4F7	4CADAE838	*.....8.....U7.....*
11E20	B920F3D0	1482B900	F3584000	2003A810	00000000	00000000	BE200000	B8000000	*..3...3.....*
11E40	B84020B6	00010290	00002001	00300001	1E300001	029433A8	6088A8E2	62926396	*.....S.....*
11E60	B921205E	391B482C	B1318802	A88EC802	A80AB900	F3580000	0815A872	391C381D	*.....H.....3.....*
11E80	3D1E3C1F	3F203E21	B1018802	A858B002	8802A852	B5028802	A84CCC4F	FC48CF82	*.....*
11EA0	A844F7B0	9840CEBE	3922F1C0	9838F123	9834DE02	A824FC82	A816F10C	9812DE90	*..7...1...1...1...1...*
11EC0	D98E492D	D101E1E1	49ADB0F0	1F24A808	B900F358	00000821	A80A492D	E1E049AD	*R...J.....3.....*
11EE0	BF011F24	A808B900	F3580000	0821B840	21700001	02900000	33A8A826	B1328802	*.....3.....*
11F00	A820C802	A806BF01	1F24A808	B900F358	0000081A	B8402170	00010290	000033A8	*..H.....3.....*

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11F20 A900A8C5 B8400B08 BD200000 55889802
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12080 C3E7C4D7 D7C3D640 2912D902 A80EB840
120A0 6804B1B0 8802A81A 641E4402 B84020B6
120C0 A878B184 8802A804 87FFA86E B1F08802
120E0 5506B840 21700001 23000205 8700A834
12100 F982A80C B8402170 00012218 0205A814
12120 020587FF 09092812 D902A80E D882A80A
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121A0 A8342915 E1BF2995 C902A82A A8120000
121C0 B84020B6 0000FE70 00004001 00300001
121E0 980AB920 300BB840 0000A824 24889504
12200 5202B840 21700001 23605805 A8214288
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124C0 8802A804 B600880A 33888804 BC0124D6
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12580 B8402300 A8574101 00000000 60290177

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*.....*
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*.....H.....H.....*
*.....*
*.....*
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*.....*
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125A0	981C5099	5C9BB920	0001218A	208EB921	25C411F8	11F82191	82032A86	2A87B800	*.....D.8.8.....*
125C0	BA400000	CB88BB23	FFFF238E	A817BB23	FFF02102	881113E8	9815218E	11901190	*.....0.....Y.....*
125E0	11901190	BD20786C	599AB921	25F82A0B	92012A8B	A8450000	DA9EEA02	A8390A36	*.....8.....*
12600	CA0ABD00	C610A843	A845A808	BD00C5F0	A84DA84F	8301A80C	21020362	A30213B8	*...F.....EO.....*
12620	985D8300	BD20786C	5A183780	9601B604	88065E98	980AA873	2091D302	A80D7718	*.....L.....*
12640	BE855E19	6758FB06	2E0B9601	2EBB5F99	218E2218	2218FB86	25185182	A8A7571D	*.....L.....*
12660	71D0571F	25185181	5783A8B5	BD20786C	53192268	88B95097	54155493	5A1A2358	*.....*
12680	5B998204	2A869516	258AA8CF	41010000	00000000	60290282	C3E7C4C9	C1E3E240	*.....CXDIATS*
126A0	B8200000	3721B603	8806B608	8802A832	E77FB608	8802A806	B7488802	A8241788	*.....X.....*
126C0	8001B840	030E340A	8005B840	50117188	D908C802	A8022E28	A8022E12	C80EA8E2	*.....R.H.....H.S*
126E0	A843B900	F3580000	1001A80D	3521B403	8802A85E	F682984E	E57FB505	8806B507	*...3.....6...V.....*
12700	8802A81F	2726B840	21700001	28904D05	B5008802	A80AB840	21700001	29D00000	*.....*
12720	A812FE82	A8068505	2726A808	B900F358	00000809	B5058802	A80AB840	21700001	*.....3.....*
12740	29880000	A80AB840	21700001	29D00000	A860FE82	A8543188	43888505	A8120000	*.....*
12760	00000000	00000000	B9200000	B8000000	B84020B6	0000FB98	00000101	00300001	*.....*
12780	27600000	FB9C44A8	1388B901	285E3521	B8402170	000129E8	0000B101	8802A806	*.....Y.....*
127A0	38A28500	A80233A8	A808B900	F3580000	08164488	880AB500	8802A804	B8400511	*.....3.....*
127C0	A8E3C904	D902C882	A876B901	33F0B700	8802A86C	3E1CB603	88563188	43888505	*.TI.R.H...0.....*
127E0	A8120000	00000000	00000000	B9200000	B8000000	B84020B6	0000FB98	00000101	*.....*
12800	00300001	27E40000	FB9C1388	44A8B840	21700001	32380000	B1018802	A80E389A	*.....U.....*
12820	B8402170	00013378	00008101	33A8A80E	25889508	B8401099	00C24388	8505A961	*.....B.....*
12840	B8400508	4388FE82	A80AB900	F3580000	0809A808	B900F358	0000080C	A8213E0E	*...3.....3.....*
12860	E6FD3E8E	37113789	37133791	37093793	30898600	3E998682	3E9D1088	41010000	*W.....*
12880	00000000	60300062	C3E7C4D2	C5E3D77C	B8401900	76316501	F50198E8	D8016581	*.....CXDKETP...5..YN...*
128A0	7D41D50C	7DC11580	7953E141	B1418804	8003A802	8005B840	030E360A	5180BC20	*..N..A.....*
128C0	00046498	748E8600	87304388	3630BF85	65015598	55989504	53F833F8	43A342AA	*.....8.8...*
128E0	54888200	83183318	4230BB85	83A85B85	BB207E68	538A5B09	D3805B89	23265391	*.....L.....*
12900	340E5496	A5043F53	E741B741	8802A862	951C87A8	5F85BC20	7E68548A	5F09D780	*.....X.....P.*
12920	5F898718	5F883323	53915788	A71CB840	0BA83631	6701D701	67813F41	D70C3FC1	*.....P.....P..A*
12940	BF200004	74985496	348E8600	87304688	6630BF85	55F855F8	45A342AA	BF200004	*.....8.8...*
12960	74A84501	55985598	3596BF20	04005783	331F5401	44984498	3496BB20	04004383	*.....*
12980	8505A802	8500A8F9	B8200000	7C53E441	B4418802	A8083D21	CD02A802	7723760E	*.....9.....U.....*
129A0	66236698	66981580	B901285E	B84010A1	00C25180	D9082C28	D4012CA8	A8062C12	*.....B..R..M.....*
129C0	D4012C92	85054388	A84322F8	02CBA811	B8200000	B8400509	438844A8	B900F358	*M.....8.....3.*
129E0	00000815	A81722F8	B8200000	27267853	E041B041	8802A806	CD02A802	7723750E	*.....8.....*
12A00	56236698	66986701	77987798	880AB840	10A10082	8100A814	580FE882	A80AB840	*.....Y.....Y.....*
12A20	10A10080	8100A804	80E88101	B1008802	A8065717	D7015797	A8534101	00000000	*.....Y.....P.....*
12A40	00000000	60300093	C3E7C4D2	D3E3D97C	252E3488	21359104	21B5391D	F982A86A	*.....CXDKLTR...9...*
12A60	B8400F00	8001B840	030EB840	108100C2	330A2928	D10229A8	41885488	57258812	*.....B...J.....*
12A80	B84020B6	0000C330	00007505	00300000	C3581488	B920001A	31839304	33F833F8	*...C.....C...8.8*
12AA0	53A55325	33983398	3688800D	30819302	B8872126	10931B53	CB02A806	6B0ED380	*.....L...*
12AC0	6B8E21F8	11F8619F	A80E2928	F1028816	56256698	66986099	80E8489A	77A844F8	*...8.8...1.....Y...8*
12AE0	44F8649D	AA04B840	0F008088	389AA810	00000000	00000000	BD200000	B8000000	*.8...M.....*
12B00	B84020B6	00013378	00001001	00300000	2AF00001	337C592D	D14259AD	B8403540	*.....0.....J...*
12B20	350E9504	358E5502	9508B840	109900C2	B8403500	621F2298	2298B840	0F003085	*.....B.....*
12B40	8002B840	030EB840	108100C2	330A3488	3085BA20	20004283	8408611D	11981198	*.....B.....*
12B60	12153295	91029302	BC8BCD04	8120499A	43013398	3398621F	22982298	11A8FD9A	*.....*
12B80	22262113	11981198	88102093	11F811F8	3181211B	22192298	2298911A	41A1840D	*.....8.8...*
12BA0	94016188	A1041203	32839102	9302BC8B	4388621F	22982298	A81A0000	00000000	*.....*
12BC0	00000000	BD200000	BE200000	BF200000	B8000000	B84020B6	00013378	00007001	*.....*
12BE0	00300001	2BBC0001	337CCD02	A8D0621F	22982298	641D4498	44988020	4882F580	*.....5...*
12C00	983CF502	98B8FDB6	641D4498	44986388	A3042226	21131198	11982219	22982298	*.5.....*

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12C20 11808806 11F811F8 3181B840 0508212E 10A52928 E1FD29A8 B8400D00 881E4301 *. . . . . 8 . 8 . . . . . *
12C40 33983398 8804B840 05084081 40A1B920 20004183 B8400D00 881ACD04 B800CFC0 *. . . . . *
12C60 252E592C E1EF59AC B8400F00 B8400508 B8403540 438880FE 389AA810 00000000 *. . . . . *
12C80 00000000 BF200000 B8000000 B84020B6 00013378 00004001 00300001 2C7C0001 *. . . . . *
12CA0 337C7388 8060389A B8402170 00013378 00002388 9314B840 1D08B840 3540BC01 *. . . . . *
12CC0 309E11A8 CC184108 1198B10C 9802A822 1098A918 A9A3A8EB A818AAB2 ABFCE47F *. . . . . J . *
12CE0 417811F8 11F8E1FE E40F6388 4318B10E 98048580 A9C31098 A838A80A A810A82F *. . . . . 8 . 8 . . . . U . . . . . C . . . . . *
12D00 A818A87E A8809308 39005158 A8089308 39005158 51483980 A85D3800 690C5158 *. . . . . *
12D20 A0013880 98048802 5148698C A8713D80 A8756188 5118BC01 309E659B BC01309E *. . . . . *
12D40 5280BD20 F1881403 24E08820 24C08826 55785578 F982C4EE 93083900 4168C4EE *. . . . . 1 . . . . . 9 . D . . . . . D . *
12D60 45685158 621F2298 2298A857 621B1401 24E08823 A827621B 140124E0 24C0882D *. . . . . *
12D80 A83381FE A8028101 93083C00 F982C4FF 5180BC01 309E1068 8802A8DF 67196599 *. . . . . 9 . D . . . . . *
12DA0 57A0983E 88B511A8 692071A0 980A6722 97041798 69A0A826 5788641D 44984498 *. . . . . *
12DC0 972055A8 0D0757B0 980C57A0 44014498 449888E3 A8116FA0 64A24798 97047501 *. . . . . T . . . . . *
12DE0 A9216422 692071A0 1780A82B 690FE1E1 698FCD06 CD86DD06 A808A8E0 A936D108 *. . . . . J . *
12EE0 698F621F 22982298 2226B920 01002183 2D80BC01 309E2C81 2C024558 2D82BC01 *. . . . . *
12E20 309E2C83 11A86A0F F2089920 C2015118 B5FF894A D202BC01 309E2F01 C78D980A *. . . . . 2 . . . . . B . . . . . K . . . . . G . . . . . *
12E40 11809804 BD20FF00 25976519 1590FA02 95019501 E5FE6599 55A80D07 64226B20 *. . . . . V . . . . . *
12E60 2608E603 C6038802 93014B82 47F877F8 278F5788 372817B0 984CFA82 A1012B01 *. . . . . W . F . . . . . 8 . 8 . . . . . *
12E80 22192298 2298B39B 88042B2C EB861108 88029101 49832226 E2FC6A8F 4101619B *. . . . . S . . . . . *
12EA0 64A24081 23133398 33988806 2093B840 05082219 22982298 2135A104 21B5B840 *. . . . . *
12EC0 2300B840 35404F83 44014498 449889DF 71A05780 17B09813 4083A863 BC01309E *. . . . . *
12EE0 5188B00D 8810B00F 8832BC01 309EB840 2803A836 AA39619B BR200204 11A84428 *. . . . . *
12F00 0D075118 940131B8 98092226 294869A4 2CC82219 22982298 611BA833 22266B24 *. . . . . H . . . . . *
12F20 2BC82219 22982298 A841E984 8004A814 8008A810 BC01309E 5188B840 2E00A802 *. . . . . H . . . . . Z . . . . . *
12F40 AA85800C 690F0158 698FAA8F 22192298 2298B840 0F003085 8001B840 030EB840 *. . . . . *
12F60 108100C2 330A2226 500823A2 30309001 0078BC01 309E3430 3530B88B A8CD8C01 *. . . . . B . . . . . *
12F80 309E4118 B4FF895B D201E2FD A955621F 22982298 B8400F00 30858400 5488B840 *. . . . . K . S . . . . . *
12FA0 2C810050 690FD10C 698F2135 A10421B5 B8403580 252E5625 66986698 23012703 *. . . . . J . . . . . *
12FC0 73B0882A 592CE1EF 59AC6422 611B4181 B8400F00 B8400F00 3788641D 44984498 *. . . . . *
12FE0 22266924 29C82219 22982298 ABB16422 6E0FEE04 611B4181 22262904 6992EEE8 *. . . . . H . . . . . Y *
13000 E6FD2313 883E2535 5C00C882 A8342307 B3E09802 A82E11C8 E31E880A B3168806 *. . . . . W . . . . . HT . . . . . *
13020 8101DC02 91012307 F3E08808 231B31B0 8812A80E B8402170 00013138 7C050658 *. . . . . 3 . . . . . *
13040 A802D602 6E8FF608 881E2322 3900B1FF 8802A80E 39016988 39026989 3903A101 *. . . . . O . . . . 6 . . . . . *
13060 698A3081 B8400508 21072219 22982298 619155A8 0078E007 BC0130CE 6C94BC01 *. . . . . *
13080 30C86C95 BC0130C6 6597690F E9046719 AAD9E1F3 698F6719 97026799 AA856519 *. . . . . H . . . . . F . . . . . Z . . . . . R . 3 . . . . . V . . . . . *
130A0 95026599 97020D07 6C209402 54389810 65225701 77987798 8BC967A2 97048400 *. . . . . *
130C0 6CA07501 40881190 11901190 11908480 E0QF8804 55F0B8E5 4088690F E1EF698F *. . . . . 0 . . . . . *
130E0 61195118 9103E1FE 619B2226 23133398 33988832 3C039304 22192298 22986119 *. . . . . *
13100 54389822 51085078 880EBC01 309E3401 45C09812 9302B88F F1018C5F BC01309E *. . . . . 1 . . . . . *
13120 33012438 8C696D0F D5106D8F 671B6799 AB792298 22982598 B8401900 26136698 *. . . . . N . . . . . *
13140 66988836 251B15A0 88308202 830111C8 0907BC20 00046498 51B09802 51804710 *. . . . . H . . . . . *
13160 3738881A 27388816 B98D6601 66986698 88080907 152888C2 A8298000 A812B98E *. . . . . *
13180 66016698 6698880F 09071528 88158002 A85B6722 00000000 00A80000 008131A4 *. . . . . *
131A0 00000000 B8400F40 B8402170 00013378 0000B840 35005001 00000000 60680399 *. . . . . *
131C0 C3E7C4C8 D6D3E37C B8401900 2626292C E99E3188 91228405 87F91E00 76388802 *. . . . . CXDHOLT . . . . . Z . . . . . 9 . . . . . *
131E0 A8329101 BC8D6901 B1288802 A826A828 31889122 BF206C61 150157B0 8802A814 *. . . . . *
13200 6107E160 B1608802 A80A6901 B1288808 293FF984 8100A851 391AE1F0 D104399A *. . . . . 9 . . . . . 0J . . . . . *
13220 8101A85D 50010000 00000000 61020080 C3E7C4C8 D9D8E340 B8200000 24884222 *. . . . . CXDHQTF . . . . . *
13240 88984920 C9022222 B8400D40 BD200000 8882591C B1038802 A87A2626 8080B840 *. . . . . I . . . . . *
13260 2B00A802 A8062135 910421B5 B8401081 00C2800F 55A8B840 2803A800 B8400F90 *. . . . . B . . . . . *
13280 BD200000 55E88836 809E589A 36885388 A8120000 00000000 00000000 BC200000 *. . . . . Y . . . . . *

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132A0	B8000000	B84020B6	00013378	00000801	00300001	32940001	337C6388	A8432788	* .....	*
132C0	4288B840	21700000	EBE00405	24887288	8100A89D	80E88101	A8A377A8	11A8492A	* .....	*
132E0	880F4198	1202B840	0D40BD20	0000881D	591CB103	8802A808	51153615	16B88810	* .....	*
13300	5788B840	1398BD20	000055E8	883BA821	7788980A	B8400F80	BF200000	A80AB840	* .....	*
13320	168500C0	BF200000	2909A101	298911A8	492A4198	1D00E5FB	D5021D80	492CE1BF	* .....	*
13340	D18049AC	4930A101	49B0809E	389A3688	7388B840	21700001	33780000	63888060	* J .....	*
13360	8101A92D	41010000	00000000	60290278	C3E7C4C8	D9E2E340	B8200000	34884103	* .....	*
13380	A0169116	31834115	31914117	319F4121	910C3197	411B31A3	411D31A1	80008101	* .....	*
133A0	319B8003	8182319D	BC219C60	41253193	800B8100	3199801C	318F398C	398DB840	* .....	*
133C0	21700000	F5200000	CF8CDF8A	DF02A804	B8400509	A808B920	3005B840	0000A869	* .....	*
133E0	41010000	60340314	C3E7C4D2	C3E5C640	37883521	B4038802	A804B504	980EB408	* .....	*
13400	8802A804	B5488804	87011088	759D3517	A50CB500	982E75A1	3523759B	351F7597	* .....	*
13420	35157599	35137595	708D768E	3503A516	94167583	3509A50C	75897093	7091709F	* .....	*
13440	8700A808	B9203007	B8400000	A8454101	00000000	60340313	C3E7C4D2	C3E5C240	* .....	*
13460	B8401900	BD213464	2F2CFF86	BF200144	A804BF20	01BC27B5	24AE2226	77A84F34	* .....	*
13480	972C4798	27A28710	2F81BF20	0008D780	2783208F	BB217C00	3F003E01	93024920	* .....	*
134A0	B1CC8808	B14C8804	73187728	23966718	97142F94	22192298	2298B840	2300A861	* .....	*
134C0	BF217C00	79001718	83407B82	9701BB20	79B28004	EC0134EA	93028005	BA204040	* .....	*
134E0	BC0134EC	81407981	A88B3201	72839302	9702B88B	40885001	00000000	61330453	* .....	*
13500	C3E7C4C9	C3E2D57C	2726491E	F1208806	B9200400	16D07901	B1108802	A806B920	* CXDICSN.....1.....	*
13520	800016D8	391DF103	8806B920	002016D8	391EC180	9806B920	000216D8	7901B110	* .....	*
13540	8802DDCC	292CF948	340E4402	55A84D34	883EB920	000816D8	45984920	B1488802	* .....	*
13560	A80A310E	1900F101	88029504	952C759E	A5025901	381EE806	7994E800	E1629101	* .....	*
13580	7994293F	D11029BF	B9200200	16D8A817	391EE902	A81DB920	000416D8	A8258001	* .....	*
135A0	B840030E	340AB840	32114388	3085B840	10B90082	B8400F38	34014498	44984488	* .....	*
135C0	8804B840	05503081	64134498	4498B840	06118100	3983611B	31A1381A	E060D001	* .....	*
135E0	B8402F0A	B800CFC0	4C20E47F	C446980E	4C2DE420	88082C38	D4082CB8	A8263C1E	* .....	*
13600	E403C401	980C2D38	E5089806	B9200001	17D03C1E	E406C406	880AE402	880C2D38	* U.D.....V.....U.D..U.....	*
13620	E5088806	B9200006	17D06783	3D1EF520	88166D01	B5288802	A80A2D2C	F5028804	* V.....5.....5.....	*
13640	B800D972	B800D92E	2D3FF520	9804B800	D972B840	20B60001	53500000	02050030	* ..R..R..5...R.....	*
13660	000153EA	B800D972	D7E3C650	05040000	00000000	00000000	63270492	C3E7C4C2	* .....	*
13680	C2E6C97C	981B5A53	35218804	B800D222	850435A1	3D833588	39021518	95042E28	* BWI.....K.....	*
136A0	56302E37	56302E2C	56302E36	5630B800	D1D84101	00000000	00000000	60300434	* .....	*
136C0	C3E7C4D2	E2E3C1D3	390DF110	88722501	880A090A	F1109804	55985598	27222920	* .....	*
136E0	F1809802	77227126	1107E11E	B118980A	390DE1F7	398DB801	767C292D	F1409811	* 1.....7.....1.....	*
13700	390DF108	980E8001	B840030E	340A4085	B8403211	5588880C	51078808	B8401499	* .....	*
13720	0080A806	B8401081	0082390D	F108980C	D108398D	43889002	B800D1FA	B800D178	* .....	*
13740	2920F140	98068087	8095A812	212DF004	88048084	A808F002	9822D986	808BB800	* .....	*
13760	D1DA2501	090AD984	55985598	B8401499	0080292D	D12029AD	B800D178	27222920	* J.....R.....J.....J.....	*
13780	F1809802	77227838	D00878B8	2D2C7126	1107E11E	B1148808	B1128804	B80177E6	* 1.....R.....J.....J.....	*
137A0	B80177EC	D7E3C650	05020000	00000000	62320135	C3E7C4C5	D9C3D440	4780E7F0	* .....	*
137C0	34884E02	96046318	11A82927	88022198	B4188856	4E208802	A80C4E21	B603880E	* .....	*
137E0	11A8B602	8824BE01	37FAB800	D2321188	9818BE01	37FAB800	D21A2E2D	D6022EAD	* .....	*
13800	4E1BD680	4E9B4388	60883610	11A8EE02	A808BE01	37FAB800	D23827AF	11888804	* .....	*
13820	37101F88	4388B801	49C0272F	36303730	11888812	1F083730	87038600	43884F83	* .....	*
13840	47A1B800	D1D88702	A811D7E3	C6500504	00000000	00000000	63430422	C3E7C4D2	* .....	*
13860	E2C4D440	31B89866	77A82F28	880E2798	3C208810	BC0138F2	B800D232	BC0138F2	* .....	*
13880	B800D21A	3C218815	B4038819	11A83902	91043198	12882510	C82A802	DD06B402	* .....	*
138A0	880AA83A	BC0138F2	B800D238	CD02A80D	11A82110	B1008815	02762C00	1438981D	* .....	*
138C0	11981198	21981688	7900E10F	6010E0F0	01587130	8C036110	7130B887	A7047900	* .....	*
138E0	CD84DD06	A808D180	A802E17F	7980B801	49C0282D	D00228AD	381BD080	389B4088	* .....	*
13900	41010000	60290366	C3E7C4D2	C2C8D940	3091B405	88443D0D	CD82A804	85043D9C	* .....	*

13920	37218832	2D28ED0A	262E884C	682CF802	A8463D1A	FDC2D501	3D9A2D2C	21889114	*.....8.....BN.....*
13940	1288B840	10810082	FD04B840	1D008508	3D9CB800	D178B800	D2228520	2836E020	*.....J...K.....*
13960	8802D580	2837E010	8802D540	24885008	BA013A9A	4288A82C	30912488	BA013AB2	*..N.....N.....*
13980	4288C88A	2937F110	881AC110	A80E2836	E020880C	2937F110	980AD110	29B7A804	*..H...1...A.....1...J.....*
139A0	B800D21A	2D2CFD02	A870B405	88C03F0D	D7203F8D	254E2688	DF083711	97023791	*..K.....P.....*
139C0	A818BA01	3AB2B002	8804B801	3A4ABA01	3AB25900	01388802	A870BA01	3AB2DF04	*.....*
139E0	5881A806	59000138	98600608	B8402170	00013B08	3005B100	8804B800	D2383F0D	*.....K.....*
13A00	DF0C2188	51A82588	5185B800	D1DBE7DF	3F8DB920	00013191	A863FD84	262EA81C	*.....JQX.....*
13A20	2F44CF82	A81D264A	ED82A810	11A8692A	61981E00	CE82A804	B8013B90	B405881C	*.....*
13A40	2488BA01	3AB2B001	8804B800	D238BA01	3ABCBA01	3AD4BA01	3ADAA853	8001BA01	*.....K.....M.....*
13A60	3A9AB840	21700001	47800004	A8658002	254EBA01	3A9A5800	BA013A9A	58010608	*.....*
13A80	BA013A9A	5106A12C	1688B840	21700001	47805005	9504BE95	A891B840	3C880081	*.....*
13AA0	C902A802	2088B840	21700001	48582E05	A80FB840	3A08C902	A8712088	3D0DD520	*I.....I.....N.....*
13AC0	3D8DB840	21700001	46100A05	E1008802	A8892088	3D0DE5DF	A81B4141	3F0DEF04	*.....V.....*
13AE0	EF8C2088	A101E7F7	3F8D41C1	20889101	E7FB3F8D	41C12688	41889114	1288B840	*.....X7...A...X...A.....*
13B00	1D006088	BE200020	B8401900	6488BA01	3AB2B001	3AB20708	BA013AB2	01087008	*.....*
13B20	1688B840	31A2BE20	00C08848	6800C882	A8426602	3111A103	3191B840	21700001	*.....H.....*
13B40	46105805	B1008802	A8430708	31117118	31913F0D	DF02A804	BECD8A12	6188912C	*.....*
13B60	51869504	BA013ADA	BE885087	52888100	A86BA857	81FFA871	00004101	00000000	*.....*
13B80	00000000	6030C288	C3E7C4D2	E2C9C940	1402B405	89CEBA01	3C9AB000	8802A8EA	*.....CXDKSII.....*
13BA0	BA013C76	37110718	37918602	0408BA01	3C9ABE89	05084101	15B098CE	3F0D4588	*.....*
13BC0	95045901	C902A804	D7803F8D	BA013C9A	0608BA01	3C9AC882	A804D708	3F8DDF08	*...I...P.....H...P.....*
13BE0	5E805881	EF8EA83C	C806CF06	9502A84E	CF02A896	BA013C9A	0708BA01	3C9A0108	*.....H.....*
13C00	70086288	1688B840	31A2BE20	0000881F	3F0DDF1C	58016602	56822688	59011058	*.....*
13C20	58819502	9502BA01	3C9A5030	BE89A816	6800D704	3F8D9504	C882A84E	26883111	*.....P...H.....*
13C40	61183191	6518EF06	9503E5FC	A883E7F7	3F8DDF04	B800D1D8	418815A8	410151B0	*.....V...X7...JQ.....*
13C60	982C11A8	81023191	BA013C94	37110718	97023791	A8BB3D0D	D5203D8D	B8402170	*.....N.....*
13C80	00014610	0A05B100	8808B800	D238B800	D2222088	3D0DE5DF	A821B840	3A08C902	*.....K...K...V...I.....*
13CA0	A8192088	8000BA01	3CFEB840	21700001	47800805	4800BA01	3CFE4801	BA013CFE	*.....*
13CC0	45889504	58000608	BA013CFE	58010708	BA013CFE	CF02A810	5602681C	BA013CFE	*.....*
13CE0	681DBA01	3CFE9502	95025010	BA013CFE	BE89CF86	9503E5FC	A837B800	D1D8B840	*.....V...JQ.....*
13D00	3C880081	C902A802	2088B840	21700001	48587205	20884101	00000000	6030C281	*...I.....*
13D20	C3E7C4D2	E2C2E2C3	3091B422	98D8390D	C982A804	8104399C	31889123	16101710	*CXDKSBSC...Q...I.....*
13D40	211D71B0	8802A89E	37218892	390DD120	398D6488	2688B840	21700001	46100A05	*.....J.....*
13D60	B1008802	A880A501	468877A8	57083791	BC013DEF	390D6E00	FE06B000	8820A866	*.....*
13D80	2E20CE06	B0008816	A84C55A8	2D2A2598	5E00DE0A	B0008806	808CB800	D1FAD902	*.....J.R.....*
13DA0	A820B000	88145E05	BC013DEE	60388802	A834EC01	3DEF0638	982C390D	E1DF3091	*.....*
13DC0	A873B000	880C9505	0608BC01	3DEE5030	BE89B800	D1D8BF01	3DF8B800	D21ABF01	*.....JQ...8...K.....*
13DE0	3DF8B800	D232BF01	3DF8B800	D238B840	3A08C902	A8114088	2D2DD502	2DAD3D1B	*.8..K...8..K...I...N.....*
13E00	D5803D9B	70886488	2688B840	21700001	47800A05	4688E000	FE02A84B	2E20CE02	*N.....*
13E20	A85155A8	2D2A2598	5E00DE02	A85D5806	90020608	95053F11	A7013F91	B8403C88	*.....*
13E40	00835010	B8403C88	0081C902	A810BE8F	38113091	B8403C88	0083B800	D1D8B840	*.....I.....JQ...*
13E60	21700001	48585005	A829D7E3	C6500504	00000000	00000000	62960238	C3E7C4D2	*.....PTF.....CXDK*
13E80	C4E2C9C9	F3088808	340E4402	24B88802	A8044222	A80AB840	F0002928	D11029A8	*DSI13...J...J...*
13EA0	42224788	4588792D	C90A8099	B8402F08	B800D178	79291518	5900F101	880E381A	*.....I.....J.....1.....*
13EC0	B0FF8864	8084389B	809FA821	D1015980	81FF399A	792CC982	F9922828	792DC9C8	*.....J...I.9...IH*
13EE0	D8C6B840	14A900C0	B800D178	E1FE79AC	5900D102	59802828	F008882C	E0F728A8	*QF...J...J...J...0...7...*
13F00	5900D108	5980B920	128CBD20	142C15A8	A50425B5	B8401081	00C22626	8080B840	*..J.....B.....*
13F20	2B00A84B	B800D178	2828E0EF	28A8282C	F00288DA	782CF008	886E3688	25889514	*.....J...0...0.....*
13F40	B8400D58	BC200000	47B8882E	9530B840	0D58BC20	0000896E	47B88826	4388B840	*.....*
13F60	131044E8	896074B8	8802A811	B8401699	00802854	A00128D4	A8162928	E1DF29A8	*...Y.....H.....*
13F80	A8062854	A00128D4	B8400F98	BC200000	73887929	13183302	38549001	38D49344	*.....M.....M.....*

13FA0	B840108A	00826388	254E7188	912C5606	61B88804	9504A80B	95045107	88065106	* .....	*
13FC0	5182A80D	11A87929	71985182	254E5801	A0015881	006898A6	20CEA518	56888408	* .....	*
13FE0	638E6188	23881D10	3DC49101	9301BC8B	282CD001	E0FD28AC	610621AA	25266109	* .....	*
14000	51B58000	589C630E	B8400520	A80AB840	21700001	45580004	20C12944	F140880E	* .....	*
14020	244A492C	F1809806	11A88101	21C1B840	108100C2	262611A8	69808083	6881B920	* .....	*
14040	128CBD20	143015A8	A50425B5	B8402300	75887929	15185900	E904B800	D178E1F7	* .....	*
14060	5980B840	3540B840	0F002928	D190E1DF	29A82937	E1FB29B7	20AE370E	77027588	* .....	*
14080	792A1518	5900D102	59802588	9514B840	1D187929	75881518	26885202	282CF002	* .....	*
140A0	882C614E	98065800	D0085880	5688254E	51061180	884461B8	8802A806	7188912C	* .....	*
140C0	51869504	A817B920	1013B840	00002937	D12029B7	B8401081	00C2B920	1490BD20	* .....	*
140E0	15B015A8	A50425B5	262611A8	6183818D	6981B840	2300B840	3540282C	F804B840	* .....	*
14100	0F00370E	77027588	79291518	5900F104	881872A2	F1028806	782CD001	78AC1008	* .....	*
14120	E1805990	0508381A	A81472A2	782DE07F	78ADF938	1008E1F4	59800508	8060B840	* .....	*
14140	2F082C2C	FC0E2928	D19029A8	26266952	D18069D2	27889714	B8401D28	F4028808	* .....	*
14160	F5089804	B800D178	B8403540	782CD001	78AC1008	E1F45980	A8415001	00000000	* .....	*
14180	00000000	61320242	C3E7C4C4	C4D3C2E4	340E4402	24B88802	A8044222	A80AB840	* .....	*
141A0	0F002928	D11029A8	47887929	88E08099	792DF180	98DA3121	8818BD20	000251C0	* .....	*
141C0	8804808F	A8CA3123	254351C0	98048091	A8BE8086	2928C902	A8B67588	79291518	* .....	*
141E0	5800F001	880E391A	B1FF8862	8084389B	809FA89C	D0015880	81FF399A	792CC982	* .....	*
14200	F9902828	792DC9C6	D8C4B840	14A900C0	A882E1FE	79AC5900	D1025980	2828F008	* .....	*
14220	882CE0F7	28A8B840	108100C2	8080B840	2B00A816	5900D108	5980B920	1490BD20	* .....	*
14240	15BC15A8	A50425B5	A84AB840	0F002928	E1EF29A8	26266952	680131A5	610731A7	* .....	*
14260	282CF83C	B8401081	00C2B840	21700001	49705E05	252E5788	79291518	5900D140	* .....	*
14280	5980E902	A80EE1F7	5980B840	35408087	B840E402	F088B800	D178B840	0F00242E	* .....	*
142A0	3121883E	2C2C3723	B84031EE	BA200000	88040708	CF068091	4788A83C	F4028822	* .....	*
142C0	2837F004	980C2836	F0089816	80874788	A8264788	781FF008	983E8083	3898809F	* .....	*
142E0	A8164788	70A2B840	20B60001	4E380000	4A050030	00014EC2	75887929	15180068	* .....	*
14300	8804389A	AA2C5202	5900282C	F002988F	B8403540	B8400F00	42A24588	49291518	* .....	*
14320	5602682C	F00288EA	6288254E	4188912C	16885106	11808912	61B88802	A80811A8	* .....	*
14340	49294198	51869504	A8194222	254E8802	A88C3085	8001B840	030E360A	638E6388	* .....	*
14360	84084478	31882788	76451691	91029702	EC8B2828	E0DF28A8	282CD002	E0FE28AC	* .....	*
14380	212A3186	26266135	31894829	45880518	5502594C	585029CC	28080003	28D128D2	* .....	*
143A0	800028D4	28D628D7	28D328D5	28D82788	97447081	70837085	708780A0	7885512A	* .....	*
143C0	562621A8	61352626	61B53588	951C659E	A50425CE	80035890	80005881	330E5E01	* .....	*
143E0	96015F00	80AC6738	991D5E81	56889504	BE855086	518861A8	5185A504	4188912C	* .....	*
14400	51862856	900128D6	65885801	A0018802	A80C2626	312569D2	68813127	61878000	* .....	*
14420	810231A1	39832143	31A3282C	F80AB840	21700001	45580805	492DD180	49AD4829	* .....	*
14440	45880518	5800D080	F852E0FC	58808060	B8402F0A	55025928	D110582C	E0288806	* .....	*
14460	482CE844	A804E17F	E1DF59A8	2928D110	29A82937	D10429B7	9514B840	1F18A514	* .....	*
14480	27889714	B8401028	582CF002	880A254E	5801A001	8802AA05	B8403540	E0FC5880	* .....	*
144A0	482CD001	48ACA85B	59A89514	B8400D58	BF200000	47B8883E	9530B840	0D58BF20	* .....	*
144C0	0000885A	74B88826	7688B840	13A8BF20	000077E8	884874B8	8802A815	B840169C	* .....	*
144E0	00C0BF20	00005810	A0015890	A8165810	A0015890	A8065914	E1DF5994	B8400F98	* .....	*
14500	BF200000	25882854	900128D4	9544B840	109D0082	48294588	05185502	A8B3B920	* .....	*
14520	1013B840	00002788	971420AF	B8401D28	47885900	D1045980	5202292C	F1028804	* .....	*
14540	B80140FA	B80140CE	50010000	61320243	C3E7C4C4	E2D3C2E4	B8401900	272E7588	* .....	*
14560	79291518	5502792D	C9262788	34889714	9514B840	0D18884A	3805E0F0	B0A09818	* .....	*
14580	B8400F18	33E8883A	B84010A9	0082A31F	57882588	A82B6388	B8401388	BE200000	* .....	*
145A0	66E8881E	6805E0F0	B0A09817	B840169C	00C0BE20	000066E8	8800B840	10AC0082	* .....	*
145C0	A82B9514	97145900	7980950F	970F5900	B1F37800	E0100158	79809509	97095101	* .....	*
145E0	7181282C	F0028812	95049704	80150078	56017681	95029702	B88B4388	A8A74101	* .....	*
14600	00000000	60290086	C3E7C4C4	D3C3C240	B8401900	3D0D8407	37119701	3791DD0E	* .....	*

14620	BA014756	689CBA01	4756689D	A8063711	97023791	BA014756	86FF6F1F	FF848600	* .....
14640	A81ADD18	B0008828	04180608	61889137	1488BA01	47564030	BE89A814	B6008802	* .....
14660	6E366038	8802A8FE	64183111	61183191	BA014756	FF048600	A8200608	11A86934	* .....
14680	912C6198	14886008	DD10B000	88286418	BA014756	4030BE89	A81CB500	880A4788	* .....
146A0	A7017488	46106F1F	60388802	A8B86418	31116118	3191BA01	4756EF88	B0008878	* .....
146C0	C808A874	B0009802	C80AA89A	37119703	3791A864	9403DD0D	C882A811	060811A8	*H.....H.....H.....*
146E0	69276488	1498682C	692DFE96	D804E1FB	A81EF882	A804E0FE	D508C894	C812D080	*.....Q.....8.....N.H.H...*
14700	A80ED804	D104A808	F88CD001	D504E07F	68AC69AD	3D8DBA01	47564884	BA014756	*..Q..J..8..N.....4884..BA014756*
14720	4885BA01	47564880	BA014756	45083711	47283791	0418A832	BA014756	692A8802	* .....
14740	A806B000	8802A81E	45083711	47283791	0418BA21	4760B840	3A08C902	A8272088	* .....
14760	37914038	880481FF	A95B8100	4008A961	41010000	60300439	C3E7C4D2	E5D9D340	* .....
14780	B8401900	8000BA01	483C8407	681CBA01	483C681D	BA01483C	6F1FFF88	8000BA01	* .....
147A0	483CA818	68360608	BA01483C	61889137	14886418	4010BA01	483CBE89	FF088000	* .....
147C0	BA01483C	A81E11A8	69346488	A101912C	14984010	06086418	BA01483C	4010BA01	* .....
147E0	483CBE89	8000EF86	BA01483C	A82AD080	6F2CFE82	A802D001	BA01483C	940311A8	* .....
14800	69276488	14984804	BA01483C	4805BA01	483C4800	BA01483C	8000BA01	483C3711	* .....
14820	47283411	37914008	BA014830	3491A8B1	B8403C88	0083C902	A80EA816	B8403C88	* .....
14840	0081C902	A8022088	B8402170	00014858	2B052088	6C00DC0E	B8401900	05083288	*..I.....*
14860	8001B840	030E340A	43888100	39833982	36882388	B8400BC8	A8044388	A80B6488	* .....
14880	B8400611	23885008	B8403C88	0081A839	41010000	60340311	C3E7C4D2	C3D7E840	* .....
148A0	B8200000	BE200009	341764A8	8802A818	2C1FF403	8808D906	3C202CB2	A808B900	* .....
148C0	F3580000	080CA808	B900F358	00001002	B5008802	A8062C2D	D4022CAD	A83F4101	*3.....3.....M.....*
148E0	00000000	60300056	C3E7C4D2	C4E3D340	B8200000	BE200009	341764A8	8802A852	* .....
14900	2D2CFD02	A8343920	B4028802	A8069101	29D0A824	B4038802	A80CB100	880429D2	* .....
14920	A8028500	A812B404	8802A804	29CCA808	B920300E	B8400000	A8028500	B5008802	* .....
14940	A80CB900	F3580000	80078500	A8028503	A80AB900	F3580000	80068500	A86F4101	* .....
14960	00000000	60340307	C3E7C4D2	C3D4D740	B8401900	282CF001	9826BE20	1490BF20	* .....
14980	15B867A8	A70427B5	24268183	4981B840	1A8000C1	B8402300	2928E1EF	29A8A831	* .....
149A0	BE20128C	BF201428	A8294101	00000000	00000000	60290099	C3E7C4C5	C4C2E240	* .....
149C0	B8400BC8	A804B840	051030A1	55283D83	B800D1D8	41010000	00000000	60300063	* .....
149E0	C3E7C4D2	C6C2E4C6	B8401A80	00C42937	C12029B7	272E880A	79298806	17187900	*CXDKFBUF...D..A.....*
14A00	F9B6B840	0F002426	4107B19E	882EBE21	9C606129	A10161A9	358833A8	44A8B840	*9.....*
14A20	21700000	C3301005	5388B900	F3580000	80023388	8844A82C	B80140FA	2928D180	* .....
14A40	29A8B840	21700000	F1A80000	B710882A	9806B840	0509A822	3117A102	31973903	* .....
14A60	A1023983	B8402170	0000F520	00007708	8898B920	1013B840	0000B840	21700000	* .....
14A80	D3380004	B8403540	41010000	60290108	C3E7C4C5	C5E34040	2928E91C	23018838	*L.....CXDEET..Z.....*
14AA0	33983398	2938C902	A80AB840	0F00B840	0509A824	B8403540	69008802	A80B292C	* .....
14AC0	F992491E	F9848040	A8028008	B8402B00	A81FA821	B8014CFC	B800D3CE	41010000	*9..9.....L.....*
14AE0	00000000	60290071	C3E7C4C3	E2C1D77C	292CF912	242E2944	D982A80E	27264C2C	* .....
14B00	7C9CB800	CFC0310E	140266A8	222611A8	29802683	4788792A	17987C00	49298802	* .....
14B20	A8124920	C984F4C0	880AB840	21700001	53506205	F4109860	4222282C	F020984C	* .....
14B40	29378010	22260168	88867C00	970627A2	818F2981	DC263C21	7C809701	B8403A4E	* .....
14B60	00000000	C902A860	A80A9701	B8403A08	C902A854	7880BC8F	3C8330A1	4222B840	* .....
14B80	1A8000C1	B8402300	B8403540	B8402170	00000000	0004A859	818D2981	2603B920	* .....
14BA0	008016D0	7900F110	9808B920	004016D0	A8124920	B1808802	A80A7903	298CB920	* .....
14BC0	000216D0	2683A84D	B920000D	B8400000	42223588	B8400F00	8001B840	030E330A	* .....
14BE0	B8401083	0082B840	320B3085	30A11128	3983399B	811E3982	30912842	BE014C28	* .....
14C00	2843BE01	4C287900	F1208810	72887C06	97077010	BE014C28	BC892788	8020B840	* .....
14C20	2F0A4222	2226A891	B8403C88	0081C902	A8026088	B8402170	00014858	7B056088	* .....
14C40	50010000	60720438	C3E7C4C2	E2C3C940	212E8816	1D298812	B920128C	BF201390	* .....
14C60	17A8A704	27B5B800	CFC02726	55287D80	85837D81	B8401A80	00C1B840	2300B840	* .....
14C80	35404101	00000000	00000000	60290029	C3E7C4C2	E2C4C940	2D44F510	985ACD06	* .....

14CA0	A81CB800	D47A2646	F5409808	DD02A80F	B8015498	690B6F0C	17389802	A813244A	*.....M...5.....*
14CC0	492CF101	9806F140	9808A82B	0909F140	9831F580	88066F0C	97016F8C	24AE2928	*..1...1.....1..5.....*
14CE0	D10829A8	26264C2C	6C9CCC82	FC84B800	D4E233A8	B800D4EE	B800D49E	2828F040	*J.....MS...M...M...0..*
14D00	98100909	F140980A	2844F020	9804B800	D3CE8040	B8402B00	A802A828	2828F040	*....1.....0.....L... ..0..*
14D20	98222246	B8400F00	33E88818	2809A001	2889B840	20B60001	4E380000	00040030	*.....Y.....*
14D40	00014EC2	B8403540	41010000	60290073	C3E7C4C3	E2E6E240	B820EDEA	2928D180	*...B. ....CXDCSWS.....J.*
14D60	29A82788	9714B840	1D288503	A8174101	00000000	60290097	C3E7C4C5	C1D3E240	*.....CXDEALS..*
14D80	242E4788	55A84D2A	75985D00	DD8E40A2	2D37CD08	25889514	B8401D18	2D44E5EF	*.....V..*
14DA0	2DC47F29	8804B801	40663D1C	B508880A	B5078802	A808B800	CFEAB800	CFC0B840	*.D.....*
14DC0	0F00381A	B8402F08	2D28F540	9804B800	D328B800	E9784101	00000000	60290009	*.....5.....L...Z.....*
14DE0	C3E7C4C2	C4E3E240	B8401900	B8402170	0000EC18	1005F982	A8132809	A0012889	*CXDBDTS . . . . .9.....*
14E00	F908B840	168100A0	A804B840	0F00391C	B105880A	B1019808	381DB005	9802E5FE	*9. ....V..*
14E20	809EB840	2F08A841	41010000	60290109	C3E7C4C5	C6C2C340	B8401900	278811A8	*.....CXDEFBC . . . . .*
14E40	792A7198	16886C00	F4028844	A8102788	11A8792A	71991688	6C007422	9808F404	*.....4.....4.....4..*
14E60	8832FC0E	A810B502	880C3121	8808F402	98228098	A83F4141	910141C1	B84010A9	*.....4.....A. . . . .*
14E80	00824288	880AB840	21700000	D3381C05	0028A85D	B5028808	B5038818	34219806	*.....L.....*
14EA0	DC0E80B9	A86FDC07	11A86905	41B0980F	7422983F	6202B840	21700001	4EF04405	*.....0..*
14EC0	A88B310E	140211A8	492A4198	16886202	B8402170	00014EF0	44050008	88A7391D	*.....0.....*
14EE0	B14A88AD	B8402F08	6900E1FB	6980A8B9	B8401900	8186BF21	4FF27981	1128399B	*.....2.....*
14F00	391DB14A	8802A80A	31218804	8120399B	27889710	7D00DD36	7402391B	88103123	*.....*
14F20	452F51B0	88047D00	A8248183	399B4914	C902A81A	4428B921	4FF21C81	4930F110	*.....I.....2...1..*
14F40	980C4904	F1809806	4930C994	A82E391B	B1838802	A804809F	A86BED40	9704A84D	*.....1.....I.....*
14F60	D902A817	4914E902	A812290B	280C1038	98258827	41121800	8802A82F	B8401D10	*R.....Z.....*
14F80	62022909	91012989	B8401081	00826900	D104E1FD	69800028	3893A8AD	29092C08	*.....J.....*
14FA0	41389804	4428EDC6	391BB120	8802A806	8183399B	A861B921	4FF21801	88068100	*.....F.....2.....*
14FC0	399BA8D5	391DC14A	98044923	E99F280A	88062909	01389859	370E7702	7829880A	*.....N..A...Z.....*
14FE0	75880518	5800F001	986B808D	A8FF7206	A8E30000	2223D1C1	11A8492A	41981688	*.....0.....P.....*
15000	6900F110	98226202	6C00B840	0F1033E8	8812B840	20B60001	4E380000	00040030	*..1.....Y.....*
15020	00014EB6	B8403540	B800CE0A	41010000	00000000	60280493	C3E7C4C1	C2F0F040	*.....CXDAB00..*
15040	B8401A80	00C42726	292CF102	8806340E	4402A802	242E4588	492A1518	2844F010	*. ....D...1.....0.....*
15060	98247807	B08C8802	A81C7901	C18D9816	283FE0DF	28BF2828	F0408804	B800E9AC	*.....A.....0.....Z..*
15080	E0F728A8	A91825AE	33889836	492CF140	98268001	B8400334	00015328	BB215328	*.7.....1.....*
150A0	3306B840	21700000	D2581005	391ED150	399E811E	3982A804	B8400F10	B8401081	*... ..K.....J.....*
150C0	0082391A	D906C984	D120399A	309B2844	F0109990	7107399B	000888EA	24AE293F	*.....R.I.J.....0.....*
150E0	E1DF29BF	7907E1FE	B10E8802	A81C292C	F1048816	2135A104	21B57613	66986698	*.....1.....*
15100	8804B840	0520B800	D798B840	21700000	C3307405	2726B840	0F007613	66986698	*.....P.....C.....*
15120	8804B840	05202928	E1F729A8	2141A101	21C15900	D1025980	D98240A2	492CD180	*... ..7.....A..J...R. . . . .*
15140	F1409804	E1FEA80E	4830A001	8802A804	E1BFD180	48B049AC	80A9389A	49288808	*1 .....J.....*
15160	8004BE00	0000A836	492DD142	49AD4929	88084588	15185900	F9C4492C	D11049AC	*.....J.....9D..J..*
15180	24AEB840	10810082	BF20128C	B9201414	71A87503	F002A104	21B5B800	CFC00909	*.....*
151A0	F120880C	B8402170	00016910	0000A80A	11A88114	1298B840	1D00B840	3540D108	*1.....J.....*
151C0	5980B801	45267613	66986698	2C28EC02	A922492C	799CF140	881AF101	88162301	*.....1..1.....*
151E0	33983398	B8402170	0000D508	40052135	910821B5	232E3900	F140982A	66888804	*.....N.....*
15200	B8400520	2C28F408	883AE4F7	2CA82944	C902A808	2346390C	A101398C	7103F902	*. ....4...U7...I.....9..*
15220	A822B801	79987D07	B8402170	00000000	7E051168	98083588	B8400F00	A9192928	*.....*
15240	F1089841	2944F110	981AD110	29C4B840	21700000	E6F05005	A80A242E	27262944	*1.....1...J..D. ....W0.....*
15260	F1109890	2C28D420	E4F72CA8	25889514	B8401A98	00C14C2C	4929880A	47881718	*1.....M.U7.....A.....*
15280	7900F9F4	2726D40A	23013398	3398791C	C982F9EE	391DC101	931A3788	39021718	*..94..M.....I..9...A.....*
152A0	97042143	71812726	31219102	31A13903	91023983	4930A101	49B0E4BF	D4802141	*.....U.M...*
152C0	A10121C1	2937D98A	292CE986	7852D080	78D22788	9714B840	10AA0082	4CAC24AE	*...A..R...Z...K.....*
152E0	381AB0E6	882CB061	88282828	F0408804	B800E970	B800CFC0	D4024CAC	24AEB801	*...W.....0.....Z...M.....*
15300	4314391D	B1058837	E4FEB104	8853E4EF	A857B840	0F00B840	2F0A2828	F0408804	*.....U.....U.....0..*

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15320 F800E978 B800D328 00000000 00000000 D7E3C650 05040000 00000000 00000000
15340 63380450 C3E7C4C2 E2C3E37C 56050030 B8401900 F4409806 B9202000 21834222
15360 F4808814 4820F040 9828F410 8828F440 88247106 7D04A83C 2626293F E1DF29BF
15380 4820F040 9806B920 0004A856 11A88500 A822F410 880E293F D12029BF F4408851
153A0 2626A81F 11A87905 91077198 9103E1FC 1D001102 26266D94 61962944 F110980E
153C0 F4108804 4820C8C3 B920000C A80EB920 00084D20 CD866D14 A5016D94 2F3FE7DF
153E0 2FBF6703 17D06783 A89B11A8 492A4198 17887C00 CC02A8A9 F410988B A85BD7E3
15400 C6500502 00000000 00000000 00000000 62740042 C3E7C4C2 C9C44040 91141488
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154A0 6909A101 6989340E 44024788 492A1718 7900E1FB 79802928 C9186288 B84020B6
154C0 00014E38 00000004 00300001 4EC2B840 35407900 F986282C D806A818 282CD814
154E0 808EB840 2F0A492C F140881B 4830A001 48B0A824 24AE42A2 21419101 21C1492C
15500 2626699C 41884F29 88067118 1930F994 B800D43C 6910D9A4 2D44F540 982A20AE
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15560 26262C53 B4008874 2C55B400 8802A8DC 55A82541 8818BB01 59208812 2D28CD24
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155A0 B4008802 A847B800 D47A2D53 95012C38 DC862952 15389802 85002DD3 D4202CB8
155C0 2C28D408 2CA8BD20 14DCBE20 149065A8 A50425B5 B8401D00 B8403540 2D38E5DF
155E0 2DB82D54 B5008802 A8584428 2CD52D28 F5088885 55A82D4C 88408001 B8400370
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156A0 D1784A05 A829B840 0F1033E8 88422D38 D5202DB8 4C2CD402 4CAC2D28 D5202DA8
156C0 2D28E5F7 2DA8B840 10BA0082 B8401AB8 00C424AE 35139804 B800D43C 25B555A8
156E0 3593B840 10810082 B8401D00 B8403540 B84010AA 00822C54 94012CD4 2D53D500
15700 99A32D38 DD02A963 A9ABB840 00000000 00000000 41010000 00000000 60290016
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157A0 A80B4DAC A81A4D1E DDC22D54 95012DD4 2D38D520 2DB82588 9544B840 149A00C0
157C0 2D28F510 880ADD08 25889514 B8401D18 2D28F540 88122726 7D07880C 2D04CD08
157E0 B8401F38 B800E970 B8403500 B8402170 00016130 0205A839 4288B840 0508D009
15800 DD33A845 41010000 00000000 60290193 C3E7C4C6 E3C3E340 2626BD20 00006D80
15820 60876083 2D2CF504 880A6703 BD208000 57D06783 85286D81 2D28F540 88048501
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15860 26266507 B5968802 A8106D14 88A86C1C F4808806 A8A0B800 E9786507 B5E09802
15880 A830E40E B408882A F5808832 E51EB502 8820B508 881CB50A 8818B518 8814B51C
158A0 8810B50C 8802A816 B4068806 B40E8802 A80CBB01 59208845 33A86D9C 679E651E
158C0 5402BD20 002C54A8 24AE8500 2DD86D1C F5409814 F5019818 6507D400 88064D2C
158E0 CD86FD8C 851C6587 85AC6D81 B800D570 11A84927 41981D00 B504880A B5058806
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15920 671E9704 7189A806 970417B8 88147402 98087401 47A8A704 A8134D00 F5809819
15940 84013088 880C7801 27889714 B8400FA8 BC200000 44E88858 85004DB3 2D38D520
15960 2DB8B840 1AA800C1 B8400F38 33E8880A B8401491 00C02535 35934D1E F5108810
15980 F508980C B8402170 00016130 0A05A810 27889744 B84010AA 00822D54 95012DD4

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*..Z...L.....PTF.....*
*...CXDBSCT.....4.....*
*4.....0..4..4.....*
*..0.....4.....J...4..*
*.....1.....*
*4.....HC.....X.*
*.....4.....PT.*
*F.....CXDBID.....*
*...1.....9.....R.1...*
*..1.....B.....*
*.....A.....J.....*
*.....CXDBDCM...Y..*
*.....I.....*
*.....B...9...Q...Q.*
*...1.....A.*
*.....9...M...R...5...*
*.....CXDCSCO.*
*.....Z...L..V7.....*
*.....M.....LM...*
*.....V.*
*.....N.5.....*
*.....M...U7M...*
*.....U7...*
*L...N..V7.....*
*N.....L.....M.....*
*5.....*
*J.....Y...N...M...N...*
*..V7...D...M...*
*.....M..N.*
*.....*
*CXDBMWS.....5.....*
*.....Q.....*
*V...V.....5.....*
*.....V7...N.V...5...*
*.....B...M..N.....*
*..5.....5.....*
*.....Z.....*
*.....CXDFCT.....*
*.....5.....5.....*
*.....A...5...*
*.....4.....Z.....*
*..U...5...V...8818B518 8814B51C
*.....*
*.....Q.5.5...M...*
*.....N.....*
*..U.....R...5...L.*
*.....5...*
*.....Y.....N.*
*.....A...Y.....5...*
*5.....M*

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159A0	4D2CE5FD	4DAC2D28	E5DF2DA8	F5409804	B800D328	B800E978	391AD906	C984D120	*..V.....V...5	....L...Z...R.I.J.*
159C0	399A4D20	E57FB54C	8802A822	3D1CB502	8802A81A	3D1DE5F7	B5069802	A8104D2D	*....V.....V7.....*	
159E0	E5DF4DAD	B8400F38	358880A1	A8502D38	E506C506	8822F504	884E8B40	0F384928	*V.....V.E...5.....*	
15A00	88088004	B8000000	A80A381A	E060D083	B800DEC6	B8015916	2135A108	21B5B840	*.....F.....*	
15A20	0F383588	A800A800	A800A800	A800A800	A800B840	10830082	A800A800	A800A800	*.....*	
15A40	A8005388	B8015948	3D1DB504	8831B505	8835B840	0F383588	381AE060	D006A823	*.....*	
15A60	D7E3C650	05040000	00000000	00000000	63080589	C3E7C4C2	D5E2E240	A8044D2D	*PTF.....CXDBNSS	
15A80	25889514	B8400F98	BC200000	4D2CE5FD	4DAC2D28	E5DF2DA8	B8400F80	BF200000	*.....V...V.....*	
15AA0	3601880E	0D0ADD84	66986698	B8400520	308130A1	55A83D83	308577A8	4F34A702	*.....*	
15AC0	4188912C	179855A8	7D00B840	2CB10001	97D40058	B800CFC0	2D2CF502	88264D20	*.....M.....5.....*	
15AE0	B5878820	4D1EF520	881A6507	B51E8802	A8123D1D	FD0EBD20	1490BF20	155057A8	*.....5.....*	
15B00	A70427B5	B800CFC0	00000000	00000000	41010000	60290190	C3E7C4C6	C2D9D440	*.....CXDFBRM	
15B20	378855A8	3D029504	57987D06	E53F5568	981E7D05	E50F482D	F0208808	B5088826	*.....V.....V...0.....*	
15B40	E0DF48AD	B5028802	A8068465	3C9AA812	4D2DD540	E5DF4DAD	80EA389A	4F32A701	*.....N V.....*	
15B60	4FB3B800	DBD2283F	E0F7D001	28BF0028	388330A1	2135A108	21B5B800	CFC04101	*.....K...7.....*	
15B80	00000000	60290037	C3E7C4C2	E2D6C840	B8400F10	33E8880A	B8402170	00000178	*.....CXDBSOH . . . Y . . . J . . . *	
15BA0	0A0577A8	4F354798	76886E05	E6008802	A8206F04	6F86A81A	B84014A9	00C0B840	*.....*	
15BC0	109D0082	2E55A601	98022ED5	2F539701	2FD36E05	96016E85	6F066738	98566588	*.....N.....L.....*	
15BE0	9508B840	0F98BF20	0000B840	0F2833E8	8835792D	F1429841	6D04A501	6D846509	*.....Y.....1.....*	
15C00	55E88800	25889544	B840149A	00C07488	B80156AE	2D54A501	2DD42C55	A4019802	*..Y.....M.....*	
15C20	2CD555A8	6D854D2C	F501881F	4D2CE57F	4DAC8827	2F532E52	76389802	A80477A8	*..N.....5.....V.....*	
15C40	2FD377A8	6F852588	9544B840	109A0082	2F549701	2FD44F2C	FF942F53	7768980A	*..L.....M.....*	
15C60	2F38F720	9804B800	D47AB801	55600F09	CF994F2D	F742981F	8001B840	03340001	*..7.....M.....7.....*	
15C80	5CB0BB21	5CB03306	3085B840	21700000	D2581005	77A8861E	37838701	3F9C8703	*.....K.....*	
15CA0	3F9D3093	24AE2C38	D4202CB8	B800D43C	84051D00	A8043C1C	41010000	60290010	*.....M.....M.....*	
15CC0	C3E7C4C2	C4E6E240	2626242E	B8402170	0000E6F0	00042F3E	B7008808	23013398	*CXDBDWS . . . . W0 . . . . *	
15CE0	3398A806	630F3398	339833E8	98142301	98178001	B8400334	00016086	BB216086	*.....Y.....*	
15D00	33064F2C	F7018814	2741A701	27C14F2C	E7FED78A	4FAC2F28	E7F72FA8	6F01B728	*....7.....A..X.P.....X7.....*	
15D20	8802A822	27019808	3085B840	14B900C0	B8402170	0000D258	10053F04	D7803F84	*.....K.....P.....*	
15D40	2F3FD701	2FBFBF21	31C87788	8812B840	21700001	31C80E05	88062F28	D7022FA8	*..P.....H.....H.....P.....*	
15D60	671B37A1	2F3E9701	2FBE701	8812650F	55985598	55E89804	30A1A80E	B8400659	*.....Y.....*	
15D80	67073F9B	E79EC710	88047728	2FBE6707	0600889E	2F3FFFC6	370E7502	4F2CD701	*....X.G.....O.....F.....P.*	
15DAC	E7754FAC	27419701	27C15488	471D3797	3F1EE7AF	3F9E4F2C	F7088906	86013E9C	*X.....A.....X.....7.....*	
15DC0	A846D708	E7EF4FAC	F7408810	27884288	B8402170	0000D6D0	7C057288	A82A6F06	*..P.X..7.....O.....*	
15DE0	880AB840	21700000	C3302E05	458877A8	4F277598	5F008605	379D471D	3797472D	*.....C.....*	
15E00	D74GD610	E6F547AD	6F07E79E	B7103802	A804B800	DC06B840	0F008718	6F874F35	*P O.W5...X.....*	
15E20	880480AB	A8068703	3F9D80A1	B8402F0A	AA386707	E71EB718	89E83F1E	D7502E3F	*.....X.....Y..P.....*	
15E40	FE82E7AF	3F934F20	B7C88882	2E3FFE8E	45882F28	F7029898	370E7502	A81CB840	*..X.....H.....7.....*	
15E60	21700001	60902E05	55E8888F	571D3117	71B08846	3F04E7DF	3F84571D	37973F1D	*.....Y.....X.....*	
15E80	B7058842	5F2CF708	9850D788	5FAC77A8	D7053F9C	5F2CE7EF	5FACF740	88102788	*.....7.....P.....P.....X...7.....*	
15EA0	5288B840	21700000	D6D07C05	7288B840	21700001	61303E05	A8263F04	F7208847	*.....O.....7.....*	
15EC0	E7DF3F84	A8E95F2C	F708980E	A812B840	21700000	00004C05	A87377A8	D7013F9C	*X...Z..7.....P.....*	
15EE0	293FD101	6707E71E	C7129808	29BFA808	B800CFC0	E1FE29BF	B8400F00	35888001	*..J...X.G.....*	
15F00	B840031E	530A3085	B840320B	670E71E	C712980C	77A84F27	47987105	3199A806	*.....X.G.....*	
15F20	4F20B7C8	8813B840	148100C0	53886707	E71EC712	980A3F1D	B705880A	87183F9B	*..H...X.G.....*	
15F40	87033F9D	A81C3717	B84031EA	BF200000	88C87D2C	F508981D	85043D9D	8718D780	*.....H..5.....P.*	
15F60	3F9B2135	A10821B5	6707E7E0	B7608802	A8823788	55A86D0C	95045798	7D00B56C	*.....X.....*	
15F80	8802A870	7D01B5D9	8802A868	7D06E53F	7C05E40F	3717B840	31EABF20	0000887A	*.....R.....V..U.....*	
15FA0	55689806	8065B402	880C7D2D	F5409838	D5407DAD	80EA7C2D	F4208826	E4DF7CAD	*.....5..N.....4..U...*	
15FC0	1688B840	0FA8FD20	0C005715	37955717	37975719	3799571D	379DB840	05196188	*.....7.....*	
15FE0	2626B840	2F0BA8F9	B8400509	B8400D00	30A1AA17	2F28F702	8812381A	2D3FFD84	*.....9.....7.....*	
16000	D020A810	D060E7FD	2FA8A808	80622F3F	FF828022	B8402F0A	A92BB920	1010B840	*.....X.....*	

16020	0000B840	0F004F2C	E7F54FAC	458877A8	4F277598	5F00B706	881EB705	881A4F2C	* . . . . . X5 . . . . . *
16040	D7104FAC	87053F9C	471D3797	77A83F9E	8062B840	2F0AA812	B8400509	4F2CD701	* P . . . . . P . . . . . *
16060	E77F4FAC	27419701	27C12F28	E7FD2FAB	F740880A	B800E978	27889714	B8401AA8	* X . . . . . A . . . . . X . . . . . 7 . . . . . Z . . . . . *
16080	00C1B800	D3280000	00000000	00008806	B8401900	658811A8	49351498	3288690C	* . . . . . A . . . . . L . . . . . * . . . . . *
160A0	46029104	129877A8	87012900	B16C8802	A81A2901	B1D98802	A8123904	D1203984	* . . . . . R . . . . . J . . . . . *
160C0	5907E19E	B1108842	2904A806	B161881A	2901D9D8	E10F1718	77987798	67987288	* . . . . . RQ . . . . . *
160E0	BD217AC0	57B89818	A8203121	D000981A	B1058802	A8142903	28041048	980CA82F	* . . . . . * . . . . . *
16100	75025722	660276B8	881E55A8	44024402	42222F28	F7028889	55888808	5F2DD740	* . . . . . 7 . . . . . P . . . . . *
16120	5FADA895	4588A899	328EA821	9710A85D	B8401900	11A84935	B1008802	A8044588	* . . . . . * . . . . . *
16140	44222F54	97012FD4	77A84F35	47989708	B84010AB	00824F04	CF102788	9744B840	* . . . . . M . . . . . *
16160	10AA0082	29549101	29D411A8	49351498	49049101	4984592C	E1PD59AC	2938D120	* . . . . . M . . . . . J . . . . . *
16180	29B8A855	D7F3C650	05040000	00000000	63280359	C3E7C4C2	C4D9E37C	0004B840	* . . . . . PTF . . . . . CXDBDRT . . . . . *
161A0	242E2626	B8400F00	B8402170	0000C330	75054D20	B5C88830	B5CF8896	B5D08892	* . . . . . C . . . . . H . . . . . *
161C0	6507F4F9	9822F402	9810B508	8884B50E	8880A814	85A93D9A	A833F404	9802A86C	* . . . . . 49 . . . . . 4 . . . . . 4 . . . . . *
161E0	B51E8858	B51A8832	4D2DD540	4DAD381A	BOA98802	80A1B840	2F08B0A9	88182788	* . . . . . N . . . . . * . . . . . *
16200	97144D04	CD04B801	5958B840	0FA8BD20	000055E8	9811B800	D3283D1A	B5A98802	* . . . . . Y . . . . . L . . . . . *
16220	A8302588	9514B840	149A00C0	4D2CD58A	E5BF4DAC	2D28D520	2DA8A816	B8401081	* . . . . . N . . . . . V . . . . . N . . . . . *
16240	00822135	A10821B5	B8015948	B5088802	A86B3588	8001B840	031E330A	B840320B	* . . . . . * . . . . . *
16260	30858001	8103319D	8150399E	11A831A1	801E3183	B8402170	0000D508	500580A5	* . . . . . N . . . . . * . . . . . *
16280	B8402F19	B8401481	00C0B800	CFC0B840	0F00B840	05092D28	CD8C2588	9514B840	* . . . . . * . . . . . *
162A0	1D18B840	3540B800	E9784101	00000000	00000000	60290004	C3E7C4C2	C4C5D940	* . . . . . Z . . . . . CXDBDER . . . . . *
162C0	B8200000	B8400F00	33E8880D	B8404F08	8304B840	0508A815	41010000	60280515	* . . . . . Y . . . . . * . . . . . *
162E0	C3E7C4C1	D5E2E740	B8200000	8001B840	03340001	633CBB21	633C3306	3085B921	* CXDANSX . . . . . * . . . . . *
16300	633C1081	811D398E	8100398F	BE219C60	61273191	61253193	3095B920	00053197	* . . . . . * . . . . . *
16320	910A3983	810A3982	812B3998	81003999	399A8107	399B693D	399CA855	00000000	* . . . . . * . . . . . *
16340	00000000	41010000	00000000	60330301	C3E7C4C1	D5E2C240	BE219C60	6939C90E	* . . . . . CXDANSB . . . . . I . . . . . *
16360	C98CB840	21700001	62C00000	A8B20809	C982A8AC	F02098A8	D0200889	BD2017C4	* I . . . . . I . . . . . 0 . . . . . D . . . . . *
16380	55278814	5219090A	D9842298	22988014	55A8B840	2803A800	056A5101	885EA502	* . . . . . R . . . . . * . . . . . *
163A0	570171B8	88141198	1198910C	1598B840	21700001	6C080000	A8066F3C	D7806FBC	* . . . . . P . . . . . * . . . . . *
163C0	BF219794	880EB840	0F6833E8	8806B840	0509A80F	0F0AEF82	A812B840	20B60001	* . . . . . Y . . . . . * . . . . . *
163E0	34600000	00040030	000134C0	056A9502	B8402170	00016490	0000A824	9506B840	* . . . . . * . . . . . *
16400	21700001	6C080000	693CC902	A80CB840	21700001	64380000	A806693C	D14069BC	* . . . . . I . . . . . J . . . . . *
16420	B8403580	41010000	00000000	60280507	C3E7C4C1	D5E2D440	B8200000	6C3CE41F	* . . . . . CXDANSM . . . . . U . . . . . *
16440	6CBC0C09	E4DF0C89	6C39E4BF	6CB9B840	21700001	62E80000	BA2197E4	6C39CC16	* . . . . . U . . . . . U . . . . . Y . . . . . U . . . . . *
16460	B8404F08	8804B840	0508B840	21700001	62C00000	A806B840	148100C0	A8474101	* . . . . . * . . . . . *
16480	00000000	60280512	C3E7C4C1	D5E2E340	B8200000	66289504	5F00B7FF	88C8CF02	* . . . . . CXDANST . . . . . H . . . . . *
164A0	A8C05202	24262F28	4A014107	9802A806	FF84B283	8804F2FF	9810FF8E	B8402170	* . . . . . 2 . . . . . * . . . . . *
164C0	00016578	0000D601	A866F703	88402B28	A81A0000	00000000	00000000	BA200000	* . . . . . O . . . . . 7 . . . . . * . . . . . *
164E0	BE200000	BF200000	B8000000	B84020B6	00016F48	00006201	00300001	64D40001	* . . . . . M . . . . . * . . . . . *
16500	6F4CB000	8802A804	D603A802	D601B840	21700001	67C80000	F6019814	B8402170	* . . . . . O . . . . . O . . . . . H . . . . . 6 . . . . . *
16520	000165D8	0000B840	21700001	66580000	F6029804	F609982A	A8120000	00000000	* . . . . . Q . . . . . 6 . . . . . 6 . . . . . * . . . . . *
16540	00000000	BD200000	B8000000	B84020B6	00016910	00001001	00300001	653C0001	* . . . . . * . . . . . *
16560	6914A8D1	A80AB840	21700001	66B00000	A8E34D2D	F5208804	B8200000	53889304	* . . . . . J . . . . . T . . . . . 5 . . . . . * . . . . . *
16580	3F00F740	884AB7FF	8846A810	00000000	00000000	BB200000	B8000000	B84020B6	* . . . . . 7 . . . . . * . . . . . *
165A0	000167E0	00000401	00300001	658C0001	67E45202	F704880C	B8402170	000166D8	* . . . . . U . . . . . 7 . . . . . Q . . . . . *
165C0	0000A80A	B8402170	00016758	0000A853	A85B8802	A804B800	B8200000	53889304	* . . . . . * . . . . . *
165E0	3F00F740	8870B7FF	886CA810	00000000	00000000	BB200000	B8000000	B84020B6	* . . . . . 7 . . . . . * . . . . . *
16600	000167E0	00000401	00300001	65EC0001	67E45202	3402491E	482CD902	A81C4904	* . . . . . U . . . . . R . . . . . * . . . . . *
16620	C918F816	E802A812	292CF902	A8062958	910129D8	2930D180	29B0F704	880CB840	* I . . . . . 8 . . . . . Y . . . . . 9 . . . . . Q . . . . . J . . . . . 7 . . . . . * . . . . . *
16640	21700001	66D80000	A80AB840	21700001	67B00000	A879A881	B8200000	2A37EA02	* . . . . . Q . . . . . * . . . . . *
16660	A80AB840	21700001	73C87005	D608F2A0	8802A838	24264107	9802A822	2F04CF02	* . . . . . H . . . . . O . . . . . 2 . . . . . * . . . . . *
16680	A8144900	F1F8980C	80804880	00288006	818C4187	A8062F18	CF02E6F7	A80E4900	* . . . . . 18 . . . . . W7 . . . . . * . . . . . *



166A0	F1F89808	8080E840	2B00A825	A8572D38	B8200000	6F3CD720	6FBC633F	8802A814	*18.....P.....*
166C0	CF02A80C	B8402170	00016438	0000A804	D7406FBC	A827AA87	B8200000	3402492C	*.....P.....*
166E0	E902A81C	F902A80C	B8402170	000167B0	0000A80A	B8402170	00016758	0000A852	*Z...9.....*
16700	F1418844	FF02A822	41228802	A8104288	B8402170	000175D8	7C055202	A80AB840	*1.....Q.....*
16720	21700001	67B00000	A81C2828	E802A80C	B8402170	000167B0	0000A80A	B8402170	*.....Y.....*
16740	00016758	0000A80A	B8402170	00016758	0000A87D	2DBFB800	B8200000	34024929	*.....*
16760	881C4F2D	00281498	4800F884	CF02A80C	D604B840	217000C1	67C80000	3402F604	*.....8.....O.....H.....6.*
16780	982AA810	0000000C	00000000	BB200000	B8000000	00016830	000168D0	00000401	*.....*
167A0	00300001	67840001	68D4A802	E6FBA859	B8200000	482CD080	48AC482D	D04048AD	*.....M..W.....*
167C0	482BE0FE	48ABA819	B8200000	2F38CF0A	D7802FB8	613F9101	61BFA815	2D2CED86	*.....P.....*
167E0	B8200000	32022388	9308B840	0FC8BA20	000022E8	8806B840	0500A813	A81F5001	*.....H.....Y.....*
16800	00000000	61320244	C3E7C4C8	C1D5E240	B8402170	00016830	000168D0	35404101	*.....CXDHANS.....*
16820	00000000	60280496	C3E7C4C1	D5E2C440	B8200000	BE219C60	2938C902	A87EA810	*.....CXDANS.....I.....*
16840	00000000	00000000	BE200000	B8000000	B84020B6	00016A6C	00002001	00300001	*.....*
16860	68400001	6A642938	E17F29B8	633FA301	63BF9802	A808B920	3025B840	00008802	*.....*
16880	A83A683C	D802A834	C802A82C	A8120000	00000000	00000000	BA200000	B8000000	*...Q...H.....*
168A0	B84020B6	00016438	00000201	00300001	68900001	643CA804	D04068BC	A88F4101	*.....*
168C0	00000000	60280498	C3E7C4C1	D5E2C540	B8200000	B8400F10	33E88806	B8400509	*.....CXDANSE.....Y.....*
168E0	A80F492D	E1BD49AD	492CE1BE	E902A804	E1EFA802	D11049AC	810049B0	A82F4101	*.....Z.....J.....*
16900	00000000	60280499	C3E7C4C1	D5E2C640	B8200000	2743B840	31AABD20	00008802	*.....CXDANSF.....*
16920	A808B920	1002B840	00002930	F180989C	2937E982	A82AA810	00000000	00000000	*.....1.....Z.....*
16940	BE200000	B8000000	B84020B6	00000000	00002001	00300001	69380000	0000A86C	*.....*
16960	292CF982	A8342944	D9862928	F902A81E	242EBB01	69CE2830	C892B920	01BCA104	*...9...R...9...H.....*
16980	21B52126	87831F81	B8402300	A80AB840	21700001	68300000	A8325904	B1FF8814	*.....*
169A0	C982A810	95045402	BB0169CE	2830C882	A819A818	2115880A	0F0ADF84	11981198	*I.....H.....*
169C0	21AEB840	21700001	68300000	A8BF492B	F9F877A8	4F29880A	47987900	F982A802	*...98.....9...*
169E0	A868492D	C902A81C	4920C902	44222788	42222938	C90AD180	29B8613F	910161BF	*...I...I...I...J.....*
16A00	7288A846	A8120000	00000000	00000000	BB200000	B8000000	B84020B6	000168D0	*.....*
16A20	00000401	00300001	6A080001	68D42928	F918F996	491FC902	A810B840	21700001	*.....M..9..9..I.....*
16A40	34601605	2830D040	28B03088	41010000	00000000	60280500	C3E7C4C1	D5E2C940	*.....CXDANSI.....*
16A60	B8200000	2928F103	8802A80D	B8400F00	33888804	B8400509	B9200014	1298B840	*.....1.....*
16A80	0F0012A8	2938E1F7	29B82928	E1DFD110	29A81128	29BB29BE	20C1292C	F982A816	*.....7.....J.....A..9...*
16AA0	2944E1EF	29C4242E	880ABB01	6B4A20AE	BF016B1A	A862F90C	242EBB01	6B4ABF01	*...D.....9.....*
16AC0	6B1AA854	293FE1BF	29BF2938	E1DF29B8	11A829D3	29D429D5	21AEB920	00441298	*.....L.M.N.....*
16AE0	B8400F00	33E88802	A80B12A8	2343B840	318ABD20	00008802	A30AB920	1002B840	*...Y.....*
16B00	0000A814	95045900	C982A80C	B1FF8808	5402BB01	6B4AA815	A8BB431D	B840318A	*.....I.....*
16B20	BD200000	8802A808	B9201002	B8400000	95045900	C982A810	B1FF880C	54024920	*.....I.....*
16B40	C906BB01	6B4AA819	70881128	49B349B0	492CE1B4	D11049AC	492DE1B9	49AD492B	*I.....J.....*
16B60	E1FE49AB	B8400F90	BE200000	66888806	B8400521	A813491F	F982A824	49358820	*.....9.....*
16B80	468811A8	49351698	6085B920	00081698	3188B840	0F2033E8	8802A80B	1388A822	*.....Y.....*
16BA0	11A8492A	881C4688	16986900	E1FBD102	6980D98E	4920C902	A808292C	F982A802	*.....J...R...I...9...*
16BC0	40A23088	50010000	00000000	60730062	C3E7C4C1	D5E2E940	2F30E7BF	2FB0242E	*.....CXDANSZ...X.....*
16BE0	4F2BD701	4FABB840	21700001	69100000	B8403540	41010000	00000000	60280508	*...P.....*
16C00	C3E7C4C1	D5E2D540	B8200000	60C15301	B2FF88BA	CA08B920	3026B840	00005202	*CXDANSN.....A.....*
16C20	2E13CE82	A8062E15	E6BF2E95	5488A810	00000000	00000000	BC200000	B8000000	*.....W.....*
16C40	B84020B6	00016CE0	00000801	00300001	6C300001	6CE42F12	CF56CF84	DF02A806	*.....U.....*
16C60	B9016D78	A848FF82	A8442B12	54C845C8	54C8A818	00000000	00000000	BA200000	*.....H.H.H.....*
16C80	BC200000	BE200000	B8000000	B84020B6	00016F48	00002A01	00300001	6C740001	*.....*
16CA0	6F4C4588	B0018802	A804B901	6D78A81A	28178806	B9016D78	A8102E13	CE82A80A	*.....*
16CC0	B8402170	00016D88	0000A8BF	A80A6741	98065E3C	D6806EBC	A8D3A81C	11A83902	*.....O...L.....*
16CE0	B8200000	11282997	95045301	B2FF8864	CA82A860	54022F12	CF02A83C	471FCE02	*.....*
16D00	A804FE82	A832CE0A	D6A1D780	479F40A6	A820CF1E	CF82A80A	D640D780	479F40A6	*.....O.P.....O.P.....*

16D20	A810B705	880CB703	8808B920	3027B840	00002917	91012997	4788B901	6DE44924	* .....	U..*
16D40	F986973C	B9016D2E4	B8402170	00016D58	0000A86B	A8770140	B8200000	95045301	*9.....U.	.....*
16D60	B2FF8812	EA02A80E	5702B901	6DE49710	B9016DE4	A81BA821	67419701	67C12F12	* .....	U.....U.....A..*
16D80	D7102F92	1088D7E3	B8200000	23262F12	2E153901	DF0AB130	8806DE04	DE82A842	*P.....PT.....	.....*
16DA0	DF3CB130	8802A81A	D7202F92	38078810	B920FEA0	218A8083	38813083	B8402300	* .....	P.....*
16DC0	A806B921	6F08218A	38003901	B183880E	B080880A	81801008	B8402B00	A800B901	* .....	.....*
16DE0	6D78A85D	B8400F68	33E88806	B8400508	A80F1088	50010000	00000000	61320240	* .....	Y.....*
16E00	C3E7C4C1	D5E2E240	B8200000	28178804	A0012897	B0008802	A8682913	C902A82C	*CXDANSS .....	I...*
16E20	A8120000	00000000	00000000	BF200000	B8000000	B84020B6	00016E98	00004001	* .....	.....*
16E40	00300001	6E240001	6E9CA836	25119501	B8404BDB	BA2000C0	8802A80A	B920300B	* .....	.....*
16E60	B8400000	A80AB840	21700001	11600000	221A2912	D90AB840	21700000	FE700000	* .....	R.....*
16E80	7728A87D	41010000	00000000	60280510	C3E7C4C1	D5E2D940	B8200000	BE219C60	* .....	CXDANSR .....
16EA0	2C12DC82	A84EE4EF	2C926541	A5019802	A808B920	3025B840	000065C1	8802A834	* .....	U.....A...*
16EC0	6C3CCC82	A82AA810	00000000	00000000	BA200000	B8000000	B84020B6	00016438	* .....	.....*
16EE0	00000201	00300001	6EC80001	643CA804	D4806CBC	A85F4101	00000000	60280495	* .....	H.....M.....*
16F00	C3E7C4C1	D5E2C340	2626B840	0F003388	8804B840	05092D15	DD02A80A	DD886322	*CXDANSC .....	.....*
16F20	A304B840	0508E5CF	2D95B840	21700000	FE700000	B8403580	41010000	60280514	* .....	V.....*
16F40	C3E7C4C1	D5E2E640	B8200000	8000FB82	A8740F12	E7F00F92	2426470E	5301790F	*CXDANSW .....	X0.....*
16F60	DB062643	D101A804	2611E1FE	798F7317	FB8CB840	21700001	6FF80000	A8028000	* .....	J.....8.....*
16F80	4F53CF82	A806DF04	4423A833	B0008302	A8325701	DF02A814	2913C982	A80CB840	* .....	.....I.....*
16FA0	21700000	FE700000	8001A818	292CF982	A812BF20	01BCA704	27B58783	4F81B840	* .....	9.....*
16FC0	23008001	A830272E	23018802	A810761D	222EB840	21700001	6FF80000	A8182303	* .....	.....8.....*
16FE0	37B08804	8001A80E	761D222E	B8402170	00016FF8	0000A8B1	B8200000	1788A810	* .....	.....8.....*
17000	00000000	00000000	BE200000	B8000000	B84020B6	000162E8	00002001	00300001	* .....	.....Y.....*
17020	70000001	62EC3117	91073197	39039107	39833918	E1DF3998	369F3111	3193BE21	* .....	.....*
17040	9C606625	3691B920	00013195	8001389B	8103399C	8101399D	80088148	56884D53	* .....	.....*
17060	CD82A806	DD02A802	D18031A1	30A311A8	810C3189	65885101	A81E0000	00000000	* .....	J.....*
17080	00000000	BA200000	BC200000	BD200000	BF200000	B8000000	B84020B6	000126A0	* .....	.....*
170A0	00005A01	00300001	707C0001	26A46008	33888806	B8400509	A809B100	8802A802	* .....	.....*
170C0	8001A8CD	D7E3C650	05020000	00000000	62300398	C3E7C4C1	D5E2D340	61284088	* .....	PTF.....CXDANSL .....
170E0	B8200000	4219090A	D9842298	2298470E	790FF9A6	4953C982	A814D902	A804441F	* .....	R.....9...I...R...*
17100	A8024423	470E7117	F982A802	A82FB840	21700001	6E080000	A822292C	F98CB840	* .....	9.....9...9...*
17120	21700001	68300000	A812B920	01BCA104	21B52725	80837881	B8402300	A85F4101	* .....	.....*
17140	00000000	60280509	C3E7C4C1	D5E2D640	B8401900	242E2626	6107F108	880A4920	* .....	CXDANSO .....
17160	B180884A	B1828842	6511883E	090AF110	98045598	5598690D	8802A802	09071518	* .....	.....1.....*
17180	95035D00	B5158802	A820292C	F98AB920	1490BD20	15CCA808	B920128C	BD201440	* .....	9.....*
171A0	15A8A504	25B58415	A85B8400	A85F6735	7F00B71C	880DA851	242E2626	B8400D10	* .....	.....*
171C0	8806391C	B1018838	552811A8	69208830	6D806DA0	6C58880A	95014128	88049802	* .....	.....*
171E0	A80B6D94	412FF102	880A2938	F1018804	8117A802	81276981	B8402300	B8403540	* .....	1.....1.....*
17200	B800D328	41010000	00000000	60290079	C3E7C4C4	C3D9C940	2626242E	6107B11C	* .....	L.....CXDDCRI .....
17220	88702D38	F501886A	452FF502	8864F504	8804B19A	880AB1F0	8806B188	8802A852	* .....	5.....5...5.....0.....*
17240	8001B840	03300001	72ACBB21	72AC3306	8844B840	21700000	ECF00004	4D2DD540	* .....	.....0...N...*
17260	4DAD8177	399C1128	399DBE21	92C606127	31952626	6107B19A	8802A804	80F3A80E	* .....	.....3...*
17280	412FE1FD	41AF492D	D10249AD	80ECB840	2F08B800	CDB02135	A10421B5	B8401A80	* .....	J.....*
172A0	00C0B840	1D00B840	35404D2D	00000000	00000000	41010000	00000000	60330337	* .....	.....*
172C0	C3E7C4C4	C3D9E340	B8401900	242E412F	F1048808	B59A8816	B5948812	F902A81E	*CXDDCRT .....	.....1.....9...*
172E0	B5F0880E	B588880A	B59C8806	A81080D3	A80280CC	472FFF88	E7FD47AF	A8028000	* .....	L.....X.....*
17300	A83BD7E3	C6500504	00000000	00000000	63430419	C3E7C4C4	E6C1E340	0405282D	* .....	PTF.....CXDDWAT .....
17320	B8401900	26266507	412FF104	880E4920	B180886A	B1828802	A806A80A	F938A85A	* .....	1.....9...*
17340	B1858802	A82CB538	8806B518	8836A822	67118830	090AF110	98047798	7798690D	* .....	.....1.....*
17360	8802A802	09071718	97037900	B1158802	A812B594	880EB5F0	880EB588	880AB59C	* .....	.....0.....*
17380	8806A816	80F3A80A	80EC472F	FF84E7FD	47AF492D	D14049AD	A8028000	A87F6735	* .....	3.....X.....J.....*

173A0	7F00B71C	8861B700	8865A83B	D7E3C650	05040000	00000000	63430417	C3E7C4C4	*.....PTF.....CXDD*
173C0	D9C1E340	44E88814	B8401900	212A2535	51981102	BD2174B8	51B88802	A83011A8	*RAT .Y.....*
173E0	8080B840	2B00A802	A823E908	2937F102	9802A82D	2937E1F5	29B7242E	472FFF84	*... ..Z...1.....5.....*
17400	E7FD47AF	27889714	B8401D28	A8472937	D10229B7	A84F2626	2937D108	29B72928	*X.....J.....J.....*
17420	D11029A8	B9200800	6183242E	4920B180	882EB182	88348112	6981608F	292CF98A	*J.....9.*
17440	B9201490	BD2015C4	A808B920	128CBD20	143815A8	A50425B5	B8402300	B8403540	*.....D.....*
17460	67357F00	B71C8802	A8356107	D000981E	E11EB118	8818E00E	B0068812	6901B1AC	*.....*
17480	8808C90A	E10FB107	88048112	A85711A8	4934912C	419861A2	8110A865	D7E3C650	*..I.....PTF.*
174A0	05040000	00000000	63430416	C3E7C4C4	D4E2C940	399B3199	2937F102	981A2626	*.....CXDDMSI .....1.....*
174C0	6107B190	8802A80C	8020B840	2B00A808	B8403540	B800CFC0	B8402170	000173C8	*.....H*
174E0	0004B840	35404101	00000000	60290087	C3E7C4C4	D4D4C940	2626242E	2937E1F7	*... ..CXDDMMI .....7*
17500	29B76107	B18C8810	B1908882	B19A8802	A810412F	F98CA876	472FFFF2	E7FD47AF	*.....Z.....2X.....*
17520	A86C8001	B8400330	000175B0	BB2175B0	33068866	B8402170	0000ECF0	0004492D	*.....0.....*
17540	D14049AD	8177399C	1128399D	BE219C60	61273195	26266107	399BB19A	8806B194	*J.....*
17560	8802A804	80F3A810	80ECB1F0	880AB188	8806B19C	880280A2	4F2DD702	4FADB0A2	*.....3.....0.....P.....*
17580	8808472F	FF84E7FD	47AFB840	2F082928	C984B800	D328B800	E9782135	A10421B5	*.....X.....I.....L.....Z.....*
175A0	B8401A80	00C0B840	1D00B840	35400096	00000000	00000000	D7E3C650	05040000	*.....PTF.....*
175C0	00000000	00000000	63430415	C3E7C4C4	D4D4E340	00000004	B8401900	248811A8	*.....CXDDMMT.....*
175E0	492A4198	1202471D	4D2CB840	21700001	4DE80905	4DAC1C00	E4FBD402	1C80A829	*.....Y.....U.M.....*
17600	50010000	61950696	C3E7C4D5	E2C7E340	2829880E	27880718	7800F001	8804808B	*.....CXDNSGT .....0.....*
17620	A8A4B444	88102D2C	F504880A	390DF110	9804808A	A890381F	F802A806	292DD101	*.....5.....1.....8.....J.*
17640	29AD2722	2820C802	77227788	882A292D	F1409828	2D2CF508	99462920	C1CC9818	*.....H.....1.....5.....A.*
17660	712E21B8	8802A810	7101880C	391DB144	8952B150	8966A968	CDD0FDCE	390DE1EF	*.....*
17680	398D7788	88067938	E1F779B8	B8402170	0000EC50	0405B840	21700000	EBE00605	*.....7.....*
176A0	292BE1C0	9806282C	E0FB28AC	29AB7788	880C7928	F1108806	9714B840	1D288060	*.....1.....*
176C0	2C2DE4FE	2CADB800	D1FA360E	6900E106	C1068926	7828E802	A85F7426	4901B1AC	*..U.....J.....A.....Y.....*
176E0	8802A804	8080A812	792CF90C	F98A291E	F982A804	8008A802	8040B840	20B60001	*.....9.9..9.....*
17700	78280000	00040030	0001783E	7904F180	984A7918	F1809814	792CF102	8822441E	*.....1.....1.....1.....*
17720	4402B920	002C14A8	24B8880E	7928E1FB	79A87426	81004980	A8BF391D	B1448884	*.....*
17740	7928F104	9816B444	887AB442	8832B460	882EB450	8802A804	808BA897	D580D504	*..1.....N.N.*
17760	7828D040	78A84108	E1BF29AB	B4608810	B442880C	B8401081	00822DAC	B800D178	*... ..J.*
17780	390DD110	398DF540	8868B840	0D40BC20	00008821	41078825	B8401491	0080A827	*..J...5...*
177A0	FD102904	F1809808	291EF120	8802A83C	A937B460	882AB442	88267928	F1109945	*...1...1...1...1...1...*
177C0	B4508818	B8402170	00017828	00047928	F1049877	7904F180	987DA961	B80178A0	*.....1.....1.....*
177E0	390DF110	996B7828	F0109971	390DD110	398DB840	148100C0	A8812722	880A7426	*..1...0...J...*
17800	4901B18D	892DA857	B8402170	000175D8	6605A999	50010000	00000000	61950689	*.....Q.....*
17820	C3E7C4C1	D9C2C1E2	B8401900	74264801	D854B08F	8802C811	8080D504	2DAC2920	*CXDARBAS. ....Q.....H..N....*
17840	B18A8802	A80E292F	F1028808	B0C88802	A8028040	7904F180	983372C8	27C872C8	*.....1.....1.....H.H.H*
17860	24264900	88064107	880EA812	B8401A80	00C1B840	2B00A806	2928D104	29A872C8	*.....A.....J...H*
17880	27C872C8	A85F281E	F882A855	8010A857	41010000	60290110	C3E7C4C5	C9E74040	*.H.H...8.....CXDEIX *
178A0	76266901	D9087937	F102983C	A826291E	F1018804	8098A802	8040B840	20B60001	*...R...1...1...*
178C0	78280000	00040030	0001783E	7928F990	611E880C	2D2DE5FE	2DAD808B	B800D1FA	*.....Z.....V.....J.*
178E0	D5042DAC	B8017760	B801767C	D7E3C650	05020000	00000000	62370952	C3E7C4C1	*N.....PTF.....CXDA*
17900	D9C34040	17888804	B8400D10	8860311D	B0988802	A804B150	881E3288	B8401388	*RC.....*
17920	BD200000	55E88846	5388311D	B0088802	A819B150	8808A81F	B8400F10	A806B840	*.....Y.....*
17940	169000A0	808BB840	2F0A492B	E1EF49AB	E1C09806	492CE1FB	49AC7928	F104980A	*.....1.....*
17960	7928E1BF	79A8B840	1D28B800	EAAAB920	100EB840	0000D7E3	C6500502	00000000	*.....PTF.....*
17980	00000000	00000000	62450434	C3E7C4C5	D9C3C640	D9E2D740	2726790C	B11C885C	*.....CXDERCF RSP.....*
179A0	B8400F00	8001B840	030E3688	330AB840	320C3085	B8401484	0000790C	39A211A8	*.....*
179C0	49288820	41981F00	3FA31702	880CB840	21700000	00000004	A8025528	3DA411A8	*.....*
179E0	8103A802	310131A1	39838004	B8402F0A	63882C28	2726B801	5244A859	481FF001	*.....0.*
17A00	8820791D	49B730F0	48B8481F	F0028871	77A84F34	972C4798	798080F9	78812726	*.....0.....0.....9.....*

17A20	A8832135	A10421B5	24AEB801	4B0A4101	00000000	60290015	C3E7C4C2	D4E3C140	*.....CXDBMTA*
17A40	00020001	00000000	00000000	00000000	00000000	80A17A60	48E06F18	FF040404	*.....*
17A60	00650016	00219C60	84017C94	5C017C48	84017D2C	5C017CE0	80017E18	58017D88	*.....*
17A80	58017DD0	84017EC0	5C017E74	84017F58	5C017F0C	84017FF0	5C017FA4	800182F8	*.....0.....8**
17AAC	50018074	580180CC	5801811C	5801816C	580181BC	4801820C	50018250	580182A8	*.....*
17AC0	FF000000	80218B0C	6021836C	082183C0	082183F4	08218428	0821845C	08218490	*.....4.....*
17AE0	082184C4	082184F8	0821852C	08218560	08218594	082185C8	082185FC	08218630	*...D...8.....H.....*
17B00	08218664	08218698	082186CC	08218700	08218734	08218768	6021879C	082187F0	*.....0.....*
17B20	60218830	08218884	082188C4	08218904	08218944	08218984	082189C4	08218A04	*.....D.....D.....*
17B40	08218A44	60218A84	08218AD8	84218BE8	64218B40	84218CC4	64218C1C	0C218CEC	*.....Q...Y...D.....*
17B60	0C218D2C	0C218D6C	0C218DAC	0C218DEC	0C218E2C	0C218E6C	0C218EAC	0C218EEC	*.....*
17B80	0C218F2C	0C218F6C	0C218FAC	0C218FEC	0C21902C	0C21906C	0C2190AC	0C2190EC	*.....*
17BA0	0C21912C	0C21916C	0C2191AC	0C2191EC	0C21922C	0C21926C	0C2192AC	0C2192EC	*.....*
17BC0	0C21932C	0C21936C	0C2193AC	0C2193EC	0C21942C	0C21946C	0C2194AC	0C2194EC	*.....*
17BE0	0C21952C	0C21956C	0C2195AC	0C2195EC	0C21962C	0C21966C	0C2196AC	FF000000	*.....*
17C00	161C27F5	C711C3F0	405C40C8	C4D9405C	40E3C5E7	E3405C5C	40404040	40404040	*...5G.CO . HDR . TEXT ..*
17C20	40404040	40404040	40404040	C3D9C9E3	E2C9E35A	40E38581	9440F040	6040C1D5	*.....CRITSIT. T... O . AN**
17C40	E2408285	87A4954B	67AF67AF	00A00000	00000000	04A80000	0400C810	00000000	*S.....H.....*
17C60	00000000	300203A4	80017C94	00000040	00003800	60000008	01000000	00000000	*.....*
17C80	11000002	00000000	00000000	00000000	01000000	00000000	1CA80000	0080CFC0	*.....*
17CA0	00000000	00000000	00000000	18A80000	0A40D3B0	00000000	00007210	8800128C	*.....L.....*
17CC0	61017C48	00000000	01100000	01000200	01000000	00013001	40000000	00017C48	*.....*
17CE0	67FB67FB	00A00000	00000000	04A80000	0400C810	00000000	00000000	300407A4	*.....H.....*
17D00	80017D2C	00000040	00003800	60000008	01000000	00000000	11000000	00000000	*.....*
17D20	00000000	00000000	01000000	00000000	1CA80000	0080CFC0	00000000	00000000	*.....*
17D40	00000000	18A80000	0A40D3B0	00000000	00007270	8800128C	61017CE0	00000000	*.....L.....*
17D60	01100000	01000200	01000000	00013003	40000000	00017CE0	02020000	00017DB4	*.....*
17D80	00017DFC	00080000	00000000	00A00000	00000000	04A80000	0480C810	00000000	*.....H.....*
17DA0	00000000	30060087	84017E18	0000003E	00000000	B0002028	00000100	0F0002C1	*.....A**
17DC0	40000301	C1400000	00000000	0000012C	00000000	00A00000	00000000	04A80000	*...A.....*
17DE0	0480C810	00000000	00000000	30070087	84017E18	0000003E	00000000	B0002028	*...H.....*
17E00	00000100	0F0002C2	40000301	C2400000	00000000	00000100	00000000	1CA80000	*.....B...B.....*
17E20	0040CF00	00000000	00000000	00000000	08A80000	0A40D3B0	00000000	000072D0	*.....L.....*
17E40	10001490	42000000	00000000	01200000	16000200	06010000	00003005	00000000	*.....*
17E60	00A00000	00017D78	02030200	00000200	00820000	68806880	00A00000	00000000	*.....*
17E80	04A80000	0400C810	00000000	00000000	300907A4	85017EC0	00000040	00003800	*.....H.....*
17EA0	60000008	01000000	00000000	10000000	00000000	00000000	00000000	01000000	*.....*
17EC0	00000000	1CA80000	0080CFC0	00000000	00000000	00000000	18A80000	0A40D3B0	*.....L.....*
17EE0	00000000	00007364	8800128C	41017E74	00000000	01100000	00000000	00000000	*.....*
17F00	00013008	40000000	00017E74	00000000	80A00000	00000000	04A80000	0400C810	*.....H.**
17F20	00000000	00000000	300B07A4	85017F58	00030040	00003800	AA000008	00000000	*.....*
17F40	00000000	10000000	00000000	00000000	00000000	01000358	6D666D66	1CA80000	*.....*
17F60	0080CF00	00000000	00000000	5FC35FC3	18A80000	0A80D3B0	00000000	000073F8	*.....C.C...L.....8**
17F80	A000128C	41017F0C	00000000	004C0000	01000000	00000000	0000300A	50000000	*.....*
17FA0	00017F0C	00000000	00A00000	00000000	04A80000	0480C810	00000000	00000000	*.....H.....*
17FC0	300D07A4	8A017FF0	00000040	00003800	31000008	00000000	00000000	10000000	*.....0.....*
17FE0	00000000	01017A98	00001001	01000000	00000000	1CA80000	0080CFC0	00000000	*.....*
18000	00000000	00000000	18A80000	0A40D3B0	00000000	0000748C	8800128C	41017FA4	*.....L.....*
18020	00000000	01280000	01000000	00010000	0001300C	40000000	00017FA4	0C0C9140	*.....*
18040	000180A0	0001827C	000180F8	000182D4	00018148	00018198	000180A0	0001827C	*.....8...M.....*
18060	000181E8	00018238	000182D4	00018198	00300000	00000000	00A00000	00000000	*...Y...M.....*
18080	04A80000	0480C810	00000000	00000000	300F000D	CC0182F8	0000004C	00000000	*.....H.....8.....*

180A0	B0002028	00000100	003C0540	407F7F2D	00017AA0	00000002	00000000	00A00000	* .....
180C0	00000000	00000000	00000303	00000000	00A00000	00000000	04A80000	0480C810	* .....H.*
180E0	00000000	00000000	30101087	4C018074	00000044	00000000	B0002028	00000100	* .....
18100	12000540	4040402D	00056060	40402D00	00000000	00000000	01040000	00000000	* .....
18120	00A00000	00000000	04A80000	0480C810	00000000	00000000	30111087	4C018074	* .....H.....*
18140	00000044	00000000	B0002028	00000100	12000540	40C1C12D	00056060	C1C12D00	* .....AA.....AA.*
18160	00000000	00000000	01000000	00000000	00A00000	00000000	04A80000	0480C810	* .....H.....*
18180	00000000	00000000	30121087	4C018074	00000044	00000000	B0002028	00000100	* .....
181A0	12000540	40C2C22D	00056060	C2C22D00	00000000	00000000	01000000	00000000	* ...BB.....BB.*
181C0	00A00000	00000000	04A80000	0480C810	00000000	00000000	30131087	4C018074	* .....H.....*
181E0	00000044	00000000	B0002028	00000100	12000540	40C3C32D	00056060	C3C32D00	* .....CC.....CC.*
18200	00000000	00000000	01842000	00000000	00A00000	00000000	04A80000	0480C810	* .....H.....*
18220	00000000	00000000	30143083	4C018074	00000000	00000000	B0002020	00000100	* .....
18240	12000540	40C4C42D	0D056060	C4C42D9C	00000000	00A00000	00000000	04A80000	* ...DD.....DD.*
18260	0480C810	00000000	00000000	3015000D	CC0182F8	0000004C	00000000	B0002028	* ...H.....8.....*
18280	00000100	003C05C1	C17F7F2D	00017AB8	000000C0	00000000	00A00000	00000000	* .....AA.....*
182A0	00000000	0000032F	00000000	00A00000	00000000	04A80000	0480C810	00000000	* .....H.....*
182C0	00000000	30161087	4C018250	00000044	00000000	B0002028	00000100	120005C1	* .....A*
182E0	C140402D	00056161	40402D00	00000000	00000000	01000000	00000000	1CA80000	* A .....
18300	0040CF00	00000000	00000000	00000000	08A00000	0A40D3B0	00000000	0000751C	* .....L.....*
18320	1000149C	46C00000	00000000	01200000	16000300	04010000	0000300E	00000000	* .....
18340	00A00000	0201803C	02090800	00000800	00000930	00000404	0005836C	0009879C	* .....
18360	000D8830	C0118A84	00140000	00000000	00A80000	008103F0	00000000	00000000	* .....0.....*
18380	00000000	C9018B0C	3019A141	00800000	02000000	00000000	00000700	00070000	* ...I.....*
183A0	04000000	000A0000	00000000	00A80000	1E810AD0	00000000	00000300	01090000	* .....
183C0	00000000	00A80000	00810A00	00000000	00000000	00A80000	0881076C	00000000	* .....
183E0	0001836C	301A0000	00C00000	00000202	00010000	00000000	00A80000	00810A00	* .....
18400	00000000	00000000	00A80000	0081076C	00000000	0001836C	301B0000	00000000	* .....
18420	00000101	00020000	00000000	00A80000	00810A00	00000000	00000900	00A80000	* .....
18440	08810760	00000000	0001836C	301C0000	00000000	00000707	00030000	00000000	* .....
18460	00A80000	00810A00	00C00000	00000000	00A80000	08810760	00000000	0001836C	* .....
18480	301D0000	00000000	00000101	000400A2	00000000	00A80000	00810A00	00000000	* .....
184A0	00000000	00A80000	08810760	00000000	0001836C	301E00C0	00000000	00000101	* .....
184C0	00052000	00000000	00A80000	00810A00	00000000	00000000	00A80000	08810760	* .....
184E0	00000000	0001836C	301F0000	00000000	00000101	C0060000	00000000	00A80000	* .....
18500	00810A00	00000000	00000000	00A80000	08810760	00000000	0001836C	30200000	* .....
18520	00000000	00000101	00070000	00000000	00A80000	00810A00	00000000	00000000	* .....
18540	00A80000	08810760	00000000	0001836C	30210000	00000000	00000101	00080000	* .....
18560	00000000	00A80000	00810A00	00000000	00000000	00A80000	08810760	00000000	* .....
18580	0001836C	30220000	00000000	00000101	00090000	00000000	00A80000	00810A00	* .....
185A0	00000000	00000000	00A80000	08810760	00000000	0001836C	30230000	00000000	* .....
185C0	00000101	000A0000	00000000	00A80000	00810A00	00000000	00000000	00A80000	* .....
185E0	08810760	00000000	0001836C	30240000	00000000	00000101	000B0000	00000000	* .....
18600	00A80000	00810A00	00000000	00000000	00A80000	08810760	00000000	0001836C	* .....
18620	30250000	00000000	00000101	000C0000	00000000	00A80000	00810A00	00000000	* .....
18640	00000000	00A80000	08810760	00000000	0001836C	30260000	00000000	00000101	* .....
18660	000D0000	00000000	00A80000	00810A00	00000000	00000000	00A80000	08810760	* .....
18680	00000000	0001836C	30270000	00000000	00000101	000E0000	00000000	00A80000	* .....
186A0	00810A00	000C0000	00000000	00A80000	08810760	00000000	0001836C	30280000	* .....
186C0	00000000	00000101	000F0000	00000000	00A80000	00810A00	00000000	00000000	* .....
186E0	00A80000	08810760	00000000	0001836C	30290000	00000000	00000101	00100000	* .....
18700	00000000	00A80000	00810A00	00000000	00000000	00A80000	08810760	00000000	* .....

18720	0001836C	302A0000	00000000	00000101	00110000	00000000	00A80000	00810A00	* .....	*
18740	00000000	00000000	00A80000	08810760	00000000	0001836C	302B0000	0C000000	* .....	*
18760	00000101	00120000	00000000	00A80000	00810A00	00000000	00000000	00A80000	* .....	*
18780	08810760	00000000	0001836C	302C0000	00000000	00000101	00130000	00000000	* .....	*
187A0	00A80000	008103F0	00000000	00000000	00000000	C2018B0C	302DA141	0C800000	* .....0.....B.....	*
187C0	04000000	00000000	00000100	00010000	00000000	00000000	00000000	00A80000	* .....	*
187E0	1E810AD0	00000000	00000300	01050000	00000000	00A80000	00810A00	00000000	* .....	*
18800	00000000	00A80000	08810760	00000000	0001879C	302E0000	00000000	00000101	* .....	*
18820	00010000	00000000	00000000	00000000	00000000	00A80000	008103F0	00000000	* .....0.....	*
18840	00000000	00000000	C5018B0C	302F0001	00800002	04000000	88440000	00000700	* .....E.....	*
18860	440C0000	04000000	000A0000	00000000	00A80000	1E810AD0	00000000	80800300	* .....	*
18880	01050000	00000000	00A80000	00810A00	00000000	00000000	00A80000	08810760	* .....	*
188A0	00000000	00018830	30300000	80001001	80090101	00010001	00000001	00020001	* .....	*
188C0	00010002	00000000	00A80000	00810A00	00000000	00000000	00A80000	08810760	* .....	*
188E0	00000000	00018830	30310000	80000000	00000101	00020001	00000000	00000000	* .....	*
18900	00000000	00000000	00A80000	00810A00	00000000	00000000	00A80000	08810760	* .....	*
18920	00000000	00018830	30320000	80000000	00000101	00030001	00000000	00000000	* .....	*
1894C	00000000	00000000	00A80000	00810A00	00000000	00000000	00A80000	08810760	* .....	*
18960	00000000	00018830	30330000	80000000	00000101	00040001	00000000	00000000	* .....	*
18980	00000000	00000000	00A80000	00810A00	00000000	00000000	00A80000	08810760	* .....	*
189A0	00000000	00018830	30340000	80000000	00000101	00050001	00000000	00000000	* .....	*
189C0	00000000	00000000	00A80000	00810A00	00000000	00000000	00A80000	08810760	* .....	*
189E0	00000000	00018830	30350000	80000000	00000101	00060001	00000000	00000000	* .....	*
18A00	00000000	00000000	00A80000	00810A00	00000000	00000000	00A80000	08810760	* .....	*
18A20	00000000	00018830	30360000	80000000	00000101	00070001	00000000	00000000	* .....	*
18A40	00000000	00000000	00A80000	00810A00	00000000	00000000	00A80000	08810760	* .....	*
18A60	00000000	00018830	30370000	80000000	00000101	00080001	00000000	00000000	* .....	*
18A80	00000000	00000000	00A80000	0C8103F0	00000000	00000000	00000000	C3018B0C	* .....0.....C.....	*
18AA0	3038A001	00800000	02000000	00000000	00000100	00010000	00000000	00000000	* .....	*
18AC0	00000000	00A80000	1E810AD0	00000000	00000300	01090000	00000000	00A80000	* .....	*
18AE0	00010A00	00000000	00000000	00A80000	08010760	00000000	00018A84	30390000	* .....	*
18B00	00000000	00000101	00010000	00000000	00A80000	00412088	00000000	301880A0	* .....	*
18B20	00000000	00000000	00000000	00000000	00007604	00000101	00058B40	00080000	* .....	*
18B40	00000000	00A80000	008103F0	00000000	00000000	00000000	FF018BE8	303BA001	* .....0.....Y.....	*
18B60	00800000	24000000	00000000	00000000	00010000	00000000	00000000	00000000	* .....	*
18B80	00A80000	1E810AD0	00000000	00000000	00000000	14018B98	00000000	00000000	* .....	*
18BA0	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....	*
LINE 18BC0 SAME AS ABOVE										
18BF0	00000000	00800000	00000000	00A80000	00411618	00000000	303A8060	00500000	* .....	*
18C00	00000000	00000000	00000000	00007678	000000101	00058C1C	00080000	00000000	* .....	*
18C20	00A80000	008103F0	00000000	00000000	00000000	C4018CC4	303D0001	00810002	* .....0.....D.....D.....	*
18C40	22000000	44440000	00140700	44070000	00000000	00000000	00000000	00A80000	* .....	*
18C60	1E810AD0	00000000	80000300	01090000	14018C74	01418CEC	00000000	00000000	* .....	*
18C80	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....	*
LINE 18CA0 SAME AS ABOVE										
18CC0	00800000	00000000	00A80000	00412088	00000000	303C8060	00C00000	00000000	* .....	*
18CE0	00000000	00000000	000076EC	00000000	00A80000	00810A00	00000000	00000000	* .....	*
18D00	00A80000	08010760	00000000	00018C1C	303E0000	80000000	00000101	00010000	* .....	*
18D20	00000000	00000000	00000000	00000000	00A80000	00810A00	00000000	00000000	* .....	*
18D40	00A80000	08810760	00000000	00000000	303F0000	00000000	00000000	00010000	* .....	*



193E0	00000000	00000000	00000000	00000000	00A80000	00810A00	00000000	00000000	* .....	*
19400	00A80000	08810760	00000000	00000000	305A0000	00000000	00000000	00010000	* .....	*
19420	00000000	00000000	00000000	00000000	00A80000	00810A00	00000000	00000000	* .....	*
19440	00A80000	08810760	00000000	00000000	305B0000	00000000	00000000	00010000	* .....	*
19460	00000000	00000000	00000000	00000000	00A80000	00810A00	00000000	00000000	* .....	*
19480	00A80000	08810760	00000000	00000000	305C0000	00000000	00000000	00010000	* .....	*
194A0	00000000	00000000	00000000	00000000	00A80000	00810A00	00000000	00000000	* .....	*
194C0	00A80000	08810760	00000000	00000000	305D0000	00000000	00000000	00010000	* .....	*
194E0	00000000	00000000	00000000	00000000	00A80000	00810A00	00000000	00000000	* .....	*
19500	00A80000	08810760	00000000	00000000	305E0000	00000000	00000000	00010000	* .....	*
19520	00000000	00000000	00000000	00000000	00A80000	00810A00	00000000	00000000	* .....	*
19540	00A80000	08810760	00000000	00000000	305F0000	00000000	00000000	00010000	* .....	*
19560	00000000	00000000	00000000	00000000	00A80000	00810A00	00000000	00000000	* .....	*
19580	00A80000	08810760	00000000	00000000	30600000	00000000	00000000	00010000	* .....	*
195A0	00000000	00000000	00000000	00000000	00A80000	00810A00	00000000	00000000	* .....	*
195C0	00A80000	08810760	00000000	00000000	30610000	00000000	00000000	00010000	* .....	*
195E0	00000000	00000000	00000000	00000000	00A80000	00810A00	00000000	00000000	* .....	*
19600	00A80000	08810760	00000000	00000000	30620000	00000000	00000000	00010000	* .....	*
19620	00000000	00000000	00000000	00000000	00A80000	00810A00	00000000	00000000	* .....	*
19640	00A80000	08810760	00000000	00000000	30630000	00000000	00000000	00010000	* .....	*
19660	00000000	00000000	00000000	00000000	00A80000	00810A00	00000000	00000000	* .....	*
19680	00A80000	08810760	00000000	00000000	30640000	00000000	00000000	00010000	* .....	*
196A0	00000000	00000000	00000000	00000000	00A80000	00810A00	00000000	00000000	* .....	*
196C0	00A80000	08810760	00000000	00000000	30650000	00000000	00000000	00010000	* .....	*
196E0	00000000	00000000	00000000	4100E658	9A0137C0	180137C0	21013D28	22013D28	* .....	* W.....
19700	4A014190	4C013E88	42017610	44017610	50017610	60017610	430136C8	8D013868	* .....	* H.....
19720	1C815420	9800ED88	01013688	02013910	05013910	C280E740	00770059	786C78B8	* .....	* B.X.....
19740	17C47894	798279B2	1200717C	000197F4	00006F48	000197E4	000197E4	000197A4	* .....	* D.....4.....U.....
19760	000197D4	00019794	00000000	80020000	00000000	00000000	00000000	00019C60	* .....	* M.....
19780	00017A40	00017A50	80000000	000A000A	00000000	00000000	00A80000	0080EE58	* .....	*
197A0	00000000	00000000	00A80000	0080BA18	00000000	00000000	00A80000	0080CF60	* .....	* FO.....
197C0	00000000	29DE29DE	00A00000	00000000	00A00000	00000000	00A80000	00215728	* .....	*
197E0	00000000	00000000	00A80000	00416358	00000000	00000000	00A80000	0020FD40	* .....	*
19800	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....	*

LINES 19820-19BE0 SAME AS ABOVE

19C00	00000000	0100FFB8	02010138	19010FE8	1A0110F8	11811190	1180FD88	11811240	* .....	* Y...8.....
19C20	018126A0	018126A0	0A00F8D8	0E00FB10	0E011348	160114A8	17011708	18011708	* .....	* ..8Q.....
19C40	0F8112E8	010126A0	02007A20	03807A20	018148A0	020148F0	030148F0	048148F0	* .....	* ..Y.....0...0...0*
19C60	00000000	00A80000	0080F5D0	00000000	00000000	00A80000	0880F460	00000000	* .....	* ..5.....4.....
19C80	00060016	30001000	0008C000	D5C3D7F0	F4D44040	00000000	02000000	00000000	* .....	* ..NCP04M.....
19CA0	00000000	A800A800	673D0A14	00000000	00140001	672A1D00	00003000	0000000A	* .....	*
19CC0	2B000050	09004C00	7750BB20	7A18BC21	000043B8	9808B920	0525B800	97B00087	* .....	*
19CE0	33A80B10	A3010B86	A3020B8F	A3010B87	A3010B88	67500A17	20000000	00170001	* .....	*
19D00	673D1F00	1000300C	0001000D	EB800011	01D5C3D7	F0F4D440	40484983	D1805174	* .....	* ..NCP04M.....J...*
19D20	BB203001	536411A8	4903C108	D1805174	BF203000	5764E17F	D1015174	D1105174	* .....	* ..A.J.....J...J...*
19D40	67630A0E	20000000	000E0001	67501F00	10003000	00020004	EB8000A0	9FD8015A	* .....	* ..W.....Q...*
19D60	913401E6	BD20084C	1B00CB02	A95CBE20	08BE1B01	B9019DEA	77088804	87407290	* .....	* ..W.....
19D80	015A9138	01E6BD20	09401B00	67760A10	00000000	00100001	67631E00	10003000	* .....	* ..W.....
19DA0	00010006	9B800001	02113000	01F0F361	F0F161F7	F74BF0F6	F0F1F54B	F5F14BF2	* .....	* ..03.01.77.06015.51.2*
19DC0	F3048710	7290015A	914001E6	BD200B40	1B00CB02	A8F4BE20	67890A10	00000000	* .....	* 3.....W.....4.....*
19DE0	00100001	67761E00	10003000	00020006	8B800001	02113000	05000010	884ABF20	* .....	*



19E00	40047774	BF200010	77944310	EBAC5701	7B21CB02	A8047707	88207316	881C7596	*	.....*
19E20	7D53FD8C	679C0A10	00000000	00100001	67891E00	10003000	00030006	8B800001	*	.....*
19E40	020A3001	87FF1088	BF200010	77944324	03663703	471433A8	4310EBE2	4504A800	*	.....S.....*
19E60	4374BB20	F0004344	BB219FC0	34825401	67C20A14	40000000	00140001	679C0E00	*	.....0.....B.....*
19E80	10013002	1001000A	9B800000	089A0000	60000008	A80047D4	A80047D4	A80047E4	*	.....M.....M.....U**
19EA0	FD8C3D36	D5014C21	CC02E5FE	3DB64516	33F833F8	43994096	BB219FC0	00001E00	*	.....N.....V.....8.8.....*
19EC0	80000000	00000000	00017A6C	00000000	10013002	00020000	06000002	0000B920	*	.....*
19EE0	00203185	B9209B58	11F811F8	318BB920	A8C03189	618EB900	962C0802	000197C4	*	.....8.8.....D**
19F00	B9200038	71F4B920	68470A10	00000000	00100001	67C21E00	10003000	00040006	*	.....4.....B.....*
19F20	8B800001	020A3003	4488883E	4145883A	08071028	9802A807	10180B07	03284BB4	*	.....*
19F40	7BB48826	0171910A	22489201	31289806	A8092308	00000000	01019F5C	00A80000	*	.....*
19F60	00000000	0014D446	7BA8001C	11981330	739D7F0C	A8081198	11981198	1198A101	*	.....K.....*
19F80	03620362	31B89804	03E2A802	01E211F8	11F811F8	9001BB21	9CA823B8	8810BB21	*	.....S.....S.8.8.....*
19FA0	685A0A14	40000000	00140001	67E80E00	10013004	1001000A	9B800000	089A0000	*	.....Y.....*
19FC0	60000008	50000000	00000000	D6202000	C3E7C6C9	D5C9E340	01010101	01010401	*	.....O.....CXFINIT.....*
19FE0	01010104	04040404	04040404	00001E00	80000000	00000000	00017A74	00000000	*	.....*
1A000	10013004	00020000	06000002	00000404	04040404	04040404	00000000	00000000	*	.....*
1A020	00000000	00000000	00000000	00000000	00000000	00000000	68210A14	00000000	*	.....*
1A040	00140001	680E1E00	10003000	0005000A	8F900080	02000001	020A0000	00000000	*	.....*
1A060	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	*	.....*
1A080	00000000	686D0A10	00000000	00100001	68211E00	10003000	00060006	8B800001	*	.....*
1A0A0	020A3008	00000000	00000000	00000000	00000000	00000000	00000000	00000000	*	.....*
1A0C0	00000000	00000000	00000000	00000000	67E80000	0101A0D8	00000000	00000000	*	.....Y.....Q.....*
1A0E0	1000C392	00000000	00000000	00000000	00000000	00000000	00000000	00000000	*	.....C.....*
1A100	00000000	00000000	00000000	00000000	00000000	00000000	00000000	68340000	*	.....*
1A120	0101A124	00000000	00000000	4200C518	00017E18	00000000	00000000	00000000	*	.....E.....*
1A140	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	*	.....*
1A160	00000000	00000000	680E0A2B	0000680E	002B0001	685A1C00	10003000	00010021	*	.....*
1A180	00000001	03813005	002A0005	00000000	8D000000	06F40000	00000000	00000000	*	.....4.....*
1A1A0	00000000	00000000	00000000	00000000	00000000	68930A14	40000000	00140001	*	.....*
1A1C0	686D0E00	10013009	1001000A	9B800000	089A0000	60000008	00000000	00000000	*	.....*
1A1E0	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	*	.....*
1A200	00001E00	80000000	00000000	00017A88	00000000	10013009	00020000	06000002	*	.....*
1A220	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	*	.....*
1A240	00000000	00000000	00000000	68A60A10	00000000	00100001	68931E00	10003000	*	.....*
1A260	00070006	8B800001	020A300A	00000000	00000000	00000000	00000000	00000000	*	.....*
1A280	00000000	00000000	00000000	00000000	00000000	00000000	68CC0A14	40000000	*	.....*
1A2A0	00140001	68A60E00	1001300B	1001000A	9B800000	089A0000	60000008	00000000	*	.....*
1A2C0	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	*	.....*
1A2E0	00000000	6D400A14	40000000	00140001	68B90E00	1001300B	0002000A	9B800000	*	.....*
1A300	06000002	609E0000	00000000	00000000	00000000	00000000	00000000	00000000	*	.....*
1A320	00000000	00000000	00000000	00000000	68F20A10	00000000	00100001	68CC1E00	*	.....2.....*
1A340	10003000	00080006	8B800001	020A300C	00000000	00000000	00000000	00000000	*	.....*
1A360	00000000	00000000	00000000	00000000	00000000	00000000	00000000	69770A14	*	.....*
1A380	40000000	00140001	68DF0E00	1001300D	1001000A	9B800000	089A0000	60000008	*	.....*
1A3A0	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	*	.....*
1A3C0	00000000	00000000	69641E00	00000000	00000000	00017A98	00000000	1001300D	*	.....*
1A3E0	00000000	05010000	00000000	00000000	00000000	00000000	00000000	00000000	*	.....*
1A400	00000000	00000000	00000000	00000000	00000000	69180A14	00000000	00140001	*	.....*
1A420	69051E00	10003000	0009000A	8F900080	02000001	020A0000	00000000	00000000	*	.....*
1A440	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	*	.....*
1A460	692B0A10	00000000	00100001	69181E00	10003000	000A0006	8B800001	020A3018	*	.....*

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1A480 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *
1A4A0 00000000 00000000 00000000 693E0A10 00000000 00100001 692B1E00 10003000 *
1A4C0 000B0006 8B800001 020A303A 00000000 00000000 00000000 00000000 00000000 *
1A4E0 00000000 00000000 00000000 00000000 00000000 00000000 698A0A10 00000000 *
1A500 00100001 693E1E00 10003000 000C0006 8B800001 0216303A 00000000 00000000 *
1A520 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *
1A540 00000000 68DF0000 0101A54C 00000000 00000000 1000C392 00000000 00000000 *
1A560 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *
1A580 00000000 00000000 00000000 00000000 69510000 0101A598 00000000 00000000 *
1A5A0 4200C518 000182F8 00000000 00000000 00000000 00000000 00000000 00000000 *
1A5C0 00000000 00000000 00000000 00000000 00000000 00000000 00000000 69050A2B *
1A5E0 00006905 002B0001 69771C00 10003000 00020021 0B000001 0381300E 00440005 *
1A600 00000000 8D000000 06F40000 00000000 00000000 00000000 00000000 00000000 *
1A620 00000000 00000000 699D0A10 00000000 00100001 698A1E00 10003000 000D0006 *
1A640 8B800001 020A303C 00000000 00000000 00000000 00000000 00000000 00000000 *
1A660 00000000 00000000 00000000 00000000 00000000 69B00A10 00000000 00100001 *
1A680 699D1E00 10003000 000E0006 8B800001 0216303C 00000000 00000000 00000000 *
1A6A0 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *
1A6C0 69C30A10 00000000 00100001 69B01E00 10003000 000F0006 8B800001 02113000 *
1A6E0 05000200 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *
1A700 00000000 00000000 00000000 69D60A10 00000000 00100001 69C31E00 10003000 *
1A720 00100006 8B800001 02013019 00000000 00000000 00000000 00000000 00000000 *
1A740 00000000 00000000 00000000 00000000 00000000 00000000 6A220A10 00000000 *
1A760 00100001 69D61E00 10003000 00110006 8B800001 0201302D 00000000 00000000 *
1A780 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *
1A7A0 00000000 6A350A10 00000000 00100001 69E91E00 10003000 00120006 8B800001 *
1A7C0 0201302F 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *
1A7E0 00000000 00000000 00000000 00000000 6A0F0A17 20000000 00170001 69FC1F00 *
1A800 1000302F 0001000D EB800011 01404040 40404040 40000000 00000000 00000000 *
1A820 00000000 00000000 00000000 00000000 00000000 00000000 00000000 6A480A0F *
1A840 20000000 000F0001 6A0F1F00 10003030 00010005 EB80000D 01010000 00000000 *
1A860 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *
1A880 00000000 00000000 69E90006 0101A890 00000000 00000000 220100C8 00000041 *
1A8A0 00007604 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *
1A8C0 00000000 00000000 00000000 00000000 00000000 69FC0A13 00000000 00130001 *
1A8E0 6A351C00 10003000 00030009 0B000001 0280302F 01000000 00000000 00000000 *
1A900 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *
1A920 6A5B0A0F 20000000 000F0001 6A481F00 10003031 00010005 EB80000D 01010000 *
1A940 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *
1A960 00000000 00000000 00000000 6A6E0A0F 20000000 000F0001 6A5B1F00 10003032 *
1A980 00010005 EB80000D 01010000 00000000 00000000 00000000 00000000 00000000 *
1A9A0 00000000 00000000 00000000 00000000 00000000 00000000 6A810A0F 20000000 *
1A9C0 000F0001 6A6E1F00 10003033 00010005 EB80000D 01010000 00000000 00000000 *
1A9E0 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *
1AA00 00000000 6A940A0F 20000000 000F0001 6A811F00 10003034 00010005 EB80000D *
1AA20 01010000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *
1AA40 00000000 00000000 00000000 00000000 6AA70A0F 20000000 000F0001 6A941F00 *
1AA60 10003035 00010005 EB80000D 01010000 00000000 00000000 00000000 00000000 *
1AA80 00000000 00000000 00000000 00000000 00000000 00000000 00000000 6ABA0A0F *
1AAA0 20000000 000F0001 6AA71F00 10003036 00010005 EB80000D 01010000 00000000 *
1AAC0 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *
1AAE0 00000000 00000000 6AE00A0F 20000000 000F0001 6ABA1F00 10003037 00010005 *

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1AB00	FB80000D	01010000	00000000	00000000	00000000	00000000	00000000	00000000	*	.....*	
1AB20	00000000	00000000	00000000	00000000	00000000	00000000	6B520A0E	20000000	000E0001	*	.....*
1AB40	6ACD1F00	10013030	00010004	EB800031	01020271	40200090	01000000	00000000	00000000	*	.....*
1AB60	00000000	00000000	000008C4	C2C4C3C3	C9C3E270	00000000	00000000	00000000	00000000	*	.....*
1AB80	6AF30A0E	00000000	000E0001	6AE01C00	10003030	00000004	0300006D	7C9A0000	00000000	*	.....*
1ABA0	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	*	.....*
1ABC0	00000000	00000000	00000000	6ACD0A15	00000000	00150001	6AF31C00	10003030	00000000	*	.....*
1ABE0	0001000B	03000001	6C610283	8983A22D	C1000000	00000000	00000000	00000000	00000000	*	.....*
1AC00	00000000	00000000	00000000	00000000	00000000	00000000	6B191236	80806BC4	00000000	*	.....*
1AC20	01490010	08001E00	30302A00	01013AC0	039100F5	C3114040	1D40C5D5	E3C5D940	00000000	*	.....*
1AC40	E3D9C1D5	E2C1C3E3	C9D6D540	C9C4114B	501DC8C5	D5E3C5D9	7A4040E3	D640C4C9	00000000	*	.....*
1AC60	E2D7D3C1	6B2C0048	E87A114C	613C4DD4	5C1D4011	4DF01D40	40114F40	1D40D7C6	00000000	*	.....*
1AC80	4040F140	7E404DC9	C4F0F15D	40F3F2F7	F040C6E4	D5C3E3C9	D6D5E240	C1D5C440	00000000	*	.....*
1ACA0	C6C5C1E3	E4D9C5E2	1150501D	404011D1	6BC40048	601D40D7	C64040F2	407E404D	00000000	*	.....*
1ACC0	D4C6F1F6	5D40D4C1	D5C1C7C5	D4C5D5E3	40E2C1D3	C5E240C1	D5C1D3E8	E2C9E211	00000000	*	.....*
1ACE0	D2F01D40	4011D440	1D40D7C6	4040F340	7E404DD4	C4F0F25D	40C8D6E2	6B650048	00000000	*	.....*
1AD00	D7C9E3C1	D340C9D5	C6D6D9D4	C1E3C9D6	D540E2E8	E2E3C5D4	11D54F1D	401D4040	00000000	*	.....*
1AD20	11D6601D	40D7C640	40F4407E	404DC9C4	F0F45D40	C1C3C3D6	E4D5E3E2	40D9C5C3	00000000	*	.....*
1AD40	C5C9E5C1	C2D3C511	6B060A0E	00000000	000E0001	6B521C00	10013030	00010004	00000000	*	.....*
1AD60	0300806E	91C70000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	*	.....*
1AD80	00000000	00000000	00000000	00000000	00000000	6BD70033	D7F01D40	4011D940	00000000	*	.....*
1ADA0	1D40D7C6	4040F540	7E404DC6	D5F0F35D	40E3C9C3	60E3C1C3	60E3D6C5	115A501D	00000000	*	.....*
1ADC0	4040115B	601D4040	1D401300	00000000	00000000	00000000	00000000	00000000	00000000	*	.....*
1ADE0	6C230A10	00000000	00100001	6B781E00	10003000	00130006	8B800001	0211303D	00000000	*	.....*
1AE00	03C40200	07078000	00010900	00000000	00000000	00000000	00000000	00000000	00000000	*	.....*
1AE20	00000000	00000000	00000000	6B9E0A10	00000000	00100001	6B8B1E00	10003000	00000000	*	.....*
1AE40	00140006	8B8000C1	0201303D	00000000	00000000	00000000	00000000	00000000	00000000	*	.....*
1AE60	00000000	00000000	00000000	00000000	00000000	00000000	6C360E12	A0000000	00000000	*	.....*
1AE80	00160000	64001F00	303D2F00	00000001	6B800011	01010500	00000001	00000000	00000000	*	.....*
1AEA0	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	*	.....*
1AEC0	00000000	6C100A0D	00000000	000D0001	6BB11C00	10013030	00010003	83010000	00000000	*	.....*
1AEE0	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	*	.....*
1AF00	00000000	00000000	00000000	00000000	6B3F1202	80010000	00002200	00000000	00000000	*	.....*
1AF20	00002600	010136C0	00000000	00000000	00000000	00000000	00000000	00000000	00000000	*	.....*
1AF40	00000000	00000000	00000000	00000000	00000000	00000000	00000000	6EFD0A0D	00000000	*	.....*
1AF60	00000000	00050000	00001E00	10013030	00010003	83010003	53000000	00000000	00000000	*	.....*
1AF80	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	*	.....*
1AFA0	00000000	00000000	6B781206	00000000	00000000	00000000	00000000	00000200	00000000	*	.....*
1AFC0	011000C4	4D630000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	*	.....*
1AFE0	00000000	00000000	00000000	00000000	00000000	6BB10000	0101AFFC	00000000	00000000	*	.....*
1B000	00000000	5A011584	00018CC4	0001AFAB	00018C1C	00000601	00000000	00000000	00000000	*	.....*
1B020	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	*	.....*
1B040	6BEA0A12	00000000	00180001	6BEA1C00	10003000	0004000E	0B000001	0284303C	00000000	*	.....*
1B060	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	*	.....*
1B080	00000000	00000000	00000000	00000000	0101B094	00000000	00000000	220100C8	00000000	*	.....*
1B0A0	00000041	000076EC	00000000	00000000	00000000	00000000	00000000	00000000	00000000	*	.....*
1B0C0	00000000	00000000	00000000	00000000	00000000	00000000	6C950A13	00000000	00000000	*	.....*
1B0E0	00130001	6C361C00	10003000	00050009	0B000001	0280303D	01000000	00000000	00000000	*	.....*
1B100	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	*	.....*
1B120	00000000	6C6F0A10	00000000	00100001	6C491E00	10003000	00150006	8B800001	00000000	*	.....*
1B140	0219303D	0180303E	00000000	00000000	00000000	00000000	00000000	00000000	00000000	*	.....*
1B160	00000000	00000000	00000000	00000000	6CA80A10	00000000	00100001	6C5C1E00	00000000	*	.....*

1B180	10003000	00160006	8B800001	0211303E	04010101	01000000	00000000	00000000	* .....	*
1B1A0	00000000	00000000	00000000	00000000	00000000	00000000	00000000	6C5C0E0C	* .....	*
1B1C0	A0000000	00102200	0C001F00	303E2F00	01000001	6B80000D	01010000	00000000	* .....	*
1B1E0	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....	*
1B200	00000000	00000000	6CB0A14	40000000	00140C01	6C820E00	1002300B	0181000A	* .....	*
1B220	9B900000	01035000	A18A0000	00000000	00000000	00000000	00000000	00000000	* .....	*
1B240	00000000	00000000	00000000	00000000	00000000	6C490A17	00000000	00170001	* .....	*
1B260	6C951F00	1000303D	0001000D	EB800011	01404040	40404040	40A5D100	00000000	* .....	* J.....*
1B280	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....	*
1B2A0	6D1A0A0F	00000000	000F0001	6CA81F00	1000303E	00010005	EB80000D	01B0B200	* .....	*
1B2C0	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....	*
1B2E0	00000000	00000000	00000000	6CCE0A14	40000000	00140001	6CBB0E00	1002300B	* .....	*
1B300	0002000A	9B800000	08440000	60000000	00000000	00000000	00000000	00000000	* .....	*
1B320	00000000	00000000	00000000	00000000	00000000	00000000	6CE10A14	40000000	* .....	*
1B340	00140001	6CCE0E00	1002300B	0183000A	9B800000	02020000	6098C5D9	D9D6D940	* .....	* ERROR *
1B360	E6C8C5D5	40D9C5C1	C4C9D5C7	40D3D6C7	D6D540D4	C5E2E2C1	C7C51500	00000000	* .....	* WHEN READING LOGON MESSAGE.....*
1B380	00000000	00000A18	40000000	00180001	6CE10E00	1002300B	0184000E	9B800000	* .....	*
1B3A0	01035000	6238A3A2	96150000	00000000	00000000	00000000	00000000	00000000	* .....	*
1B3C0	00000000	00000000	00000000	00000000	00000A14	40000000	00140001	6CF40E00	* .....	* .....
1B3E0	1002300B	0185000A	9B800000	02021000	6098C9D5	D7E4E340	D5D6E340	D9C5C3D6	* .....	* INPUT NOT RECO*
1B400	C7D5C9E9	C5C41500	00000000	00000000	00000000	00000000	00000000	68B90000	* .....	* GNIZED.....*
1B420	0101B424	00000000	00000000	1000C392	0001B208	00000000	00000000	00000000	* .....	* .....
1B440	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....	*
1B460	00000000	00000000	6D070000	0101B470	00000000	00000000	4200C518	0001F5F8	* .....	* .....
1B480	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....	*
1B4A0	00000000	00000000	00000000	00000000	00000000	6C820A2B	00006C82	002B0001	* .....	*
1B4C0	6D2D1C00	1C003000	00060021	0B000001	0381300B	00280005	01035000	28285000	* .....	*
1B4E0	088A0000	00000002	000007A4	85000000	00000000	00000000	00000000	00000000	* .....	*
1B500	6D530000	0101B508	00000000	00000000	04017696	0001B2EC	00000000	00000000	* .....	*
1B520	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....	*
1B540	00000000	00000000	00000000	6D2D0000	0101B554	00000000	00000000	060176A0	* .....	*
1B560	00017F0C	0001B2EC	00000000	00000000	00000000	00000000	00000000	00000000	* .....	*
1B580	00000000	00000000	00000000	00000000	00000000	00000000	00001E00	80000000	* .....	*
1B5A0	00000000	00017A90	00000000	1002300B	01860000	01035000	00000000	00000000	* .....	*
1B5C0	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....	*
1B5E0	00000000	6D8C0A3E	00000000	00000000	00000000	00000000	00000000	00000000	* .....	*
1B600	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....	*
1B620	00000000	00000000	00000000	00000000	6D9F0048	00000000	00000000	00000000	* .....	*
1B640	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....	*
1B660	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000048	* .....	*
1B680	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....	*
	LINE 1B6A0	SAME AS	ABOVE							
1B6C0	00000000	00000000	6DC50000	00000000	00000000	00000000	00000000	00000000	* .....	* E.....*
1B6E0	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....	*
1B700	00000000	00000000	00000000	00000000	00000000	6D800000	00000000	00000000	* .....	* .....
1B720	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....	* .....
	LINE 1B740	SAME AS	ABOVE							
1B760	6DEB0000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....	*
1B780	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....	*
1B7A0	00000000	00000000	00000000	6DFE0000	00000000	00000000	00000000	00000000	* .....	*

1B7C0	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....
1B7E0	00000000	00000000	00000000	00000000	00000000	00000000	6E110000	00000000	* .....
1B800	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....
LINE 1B820 SAME AS ABOVE									
1B840	00000000	6E240000	00000000	00000000	00000000	00000000	00000000	00000000	* .....
1B860	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....
1B880	00000000	00000000	00000000	00000000	00000000	6E370000	00000000	00000000	* .....
1B8A0	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....
1B8C0	00000000	00000000	00000000	00000000	00000000	00000000	00000000	6E4A0000	* .....
1B8E0	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....
LINE 1B900 SAME AS ABOVE									
1B920	00000000	00000000	6E5D0000	00000000	00000000	00000000	00000000	00000000	* .....
1B940	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....
1B960	00000000	00000000	00000000	00000000	00000000	6E700000	00000000	00000000	* .....
1B980	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....
LINE 1B9A0 SAME AS ABOVE									
1B9C0	6E830000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....
1B9E0	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....
1BA00	00000000	00000000	00000000	00000000	6E960000	00000000	00000000	00000000	* .....
1BA20	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....
1BA40	00000000	00000000	00000000	00000000	00000000	00000000	6EA90000	00000000	* .....
1BA60	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....
LINE 1BA80 SAME AS ABOVE									
1BAA0	00000000	6EBC0000	00000000	00000000	00000000	00000000	00000000	00000000	* .....
1BAC0	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....
1BAE0	00000000	00000000	00000000	00000000	00000000	6ECF0000	00000000	00000000	* .....
1BB00	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....
1BB20	00000000	00000000	00000000	00000000	00000000	00000000	00000000	6EE20000	* .....
1BB40	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....
LINE 1BB60 SAME AS ABOVE									
1BB80	00000000	00000000	6FF50000	00000000	00000000	00000000	00000000	00000000	* .....5.....*
1BBA0	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....
1BBC0	00000000	00000000	00000000	00000000	00000000	6F080000	00000000	00000000	* .....
1BBE0	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....
LINE 1BC00 SAME AS ABOVE									
1BC20	6F1B0000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....
1BC40	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....
1BC60	00000000	00000000	00000000	00000000	6F2E0000	00000000	00000000	00000000	* .....
1BC80	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....
1BCA0	00000000	00000000	00000000	00000000	00000000	00000000	6F410000	00000000	* .....
1BCC0	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....
LINE 1BCE0 SAME AS ABOVE									
1BD00	00000000	6F540000	00000000	00000000	00000000	00000000	00000000	00000000	* .....
1BD20	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	* .....
1BD40	00000000	00000000	00000000	00000000	00000000	6F670000	00000000	00000000	* .....

1BD60	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	*	.....*
1BD80	00000000	00000000	00000000	00000000	00000000	00000000	00000000	6F7A0000	00000000	*	.....*
1BDA0	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	*	.....*
LINE 1BDC0 SAME AS ABOVE											
1BDE0	00000000	00000000	6F8D0000	00000000	00000000	00000000	00000000	00000000	00000000	*	.....*
1BE00	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	*	.....*
1BE20	00000000	00000000	00000000	00000000	00000000	00000000	00000000	6FA00000	00000000	*	.....*
1BE40	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	*	.....*
LINE 1BE60 SAME AS ABOVE											
1BE80	6FB30000	00000000	00000178	BA200400	B9200080	7194E708	7688B920	00220198	00000000	*	.....Y.....*
1BEA0	EF048520	A8028508	1D819104	C5381D81	8500BF20	020011A8	A87E716C	F0069906	00000000	*	.....E.....0...*
1BEC0	717CF108	9806F13C	98BCA813	6FC6F110	989CC9C2	DD0A512C	11889834	DDB8A850	00000000	*	..1...1.....F1...IB.....*
1BEE0	250E2488	220ABB20	00EC0398	80283710	4730B887	0188A16C	51A85081	9502A102	00000000	*	.....*
1BF00	1188980B	6188E108	BB2000D0	73942088	80015134	A858D520	6FD9218E	518CE103	00000000	*	.....N..R.....*
1BF20	298DBB20	80102381	21889108	2182A83E	BF200200	210E7198	218E21B8	88181798	00000000	*	.....*
1BF40	C7B89808	BB208220	D510A804	EB208800	23812182	A818BB20	90A02381	BB2C8760	00000000	*	.....N.....*
1BF60	23859128	6FECB920	006C0198	A81D2188	51048020	81005154	BF200400	57446188	00000000	*	.....*
1BF80	D1365174	A8CD719C	F91011A8	67887108	C108D136	D0025174	A8E1717C	E916612C	00000000	*	*J.....9.....A.J.....Z...*
1BFA0	D998C916	E894E920	00386174	B920C740	672AA8FB	610CF033	9815B920	000D6164	00000000	*	*R.I.Y.....0.....*
1BFC0	B920CF40	A8176788	EF04E886	A861F802	A865BD20	20007594	2388618E	B9200412	00000000	*	.....Y...8.....*
1BFE0	618A1382	8144B800	96C40000	0000A825	138A3307	33983398	8806A85F	170107E7	00000000	*	.....D.....X*

BUFFER POOL

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19CA8  CHAIN POINTER 19CF4
673D0A14 00C00000 0C140001 672A1D00 00003000 0000000A 2B000050 09004C00 * .....*
7750BB20 7A18BC21 000043B8 9808B920 0525B800 97B00087 33A80B10 A3010B86 * .....*
A3020B8F A3010B87 A3010B88 * .....O*

19CF4  CHAIN POINTER 19D40
67500A17 20000000 00170001 673D1F00 10003000 0001000D EB800011 01D5C3D7 * .....NCP*
F0F4D440 40484983 D1805174 BE203001 536411A8 4903C108 D1805174 BF203000 *Q4M ...J.....A.J.....*
5764E17F D1015174 D1105174 *....J...J.....O*

19D40  CHAIN POINTER 19D8C
67630A0E 20000000 000E0001 67501F00 10003000 00020004 EB8000A0 9FD8015A * .....Q..*
9134C1E6 BD200840 1B00CB02 A95CBE20 08BE1B01 B9019DEA 77088804 87407290 *...W... ..*
015A9138 01E6BD20 09401B00 *.....W... ..O*

19D8C  CHAIN POINTER 19DD8
67760A10 00000000 00100001 67631E00 10003000 00010006 8B800001 02113000 * .....*
01F0F361 F0F161F7 F74BF0F6 F0F1F54B F5F14BF2 F3048710 7290015A 914001E6 *..03.01.77.06015.51.23.....W*
BD200B40 1B00CB02 A8F4BE20 *... ..4.....O*

19DD8  CHAIN POINTER 19E24
67890A10 00000000 0C100001 67761E00 10003000 00020006 8B800001 02113000 * .....*
05000010 884ABF20 40047774 BF200010 77944310 EBAC5701 7B21CB02 A8047707 * .....*
88207316 881C7596 7D53FD8C * .....O*

19E24  CHAIN POINTER 19E70
679C0A10 00000000 0C100001 67891E00 10003000 00030006 8B800001 020A3001 * .....*
87FF1088 BF200010 77944324 03663703 471433A8 4310EBE2 4504A800 4374BB20 * .....S.....*
F0004344 BB219FC0 34825401 *0.....O*

19E70  CHAIN POINTER 19F08
67C20A14 40000000 00140001 679C0E00 10013002 1001000A 9B800000 089A0000 *..B.....*
60000008 A80047D4 A80047D4 A80047E4 FD8C3D36 D5014C21 CC02E5FE 3DB64516 *.....M...M...U...N...V.....*
33F833F8 43994096 BB219FC0 *..8.8.. ..O*

19EBC  CHAIN POINTER 00000
00001E00 80000000 00000000 00017A6C 00000000 10013002 00020000 06000002 * .....*
0000B920 00203185 B9209B58 11F811F8 318BB920 A8C03189 618EB900 962C0802 * .....8.8.....*
000197C4 B920C038 71F4B920 *...D...4.....O*

19F08  CHAIN POINTER 1A11C
68470A10 00000000 00100001 67C21E00 10003000 00040006 8B800001 020A3003 * .....B.....*
4488883E 4145883A 08071028 9802A807 10180E07 03284BB4 7BB48826 0171910A * .....*
22489201 31289806 A8092308 * .....O*

19F54  CHAIN POINTER 00000
00000000 01019F5C 00A80000 00000000 0014D446 7BA8001C 11981330 739D7F0C * .....M.....*
A8081198 11981198 1198A101 03620362 31B89804 03E2A802 01E211F8 11F811F8 * .....S...S.8.8.8*
9001BB21 9CA823B8 8810BB21 * .....O*

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19FA0  CHAIN POINTER 1A168
685A0A14 40000000 00140001 67E80E00 10013004 1001000A 9B800000 089A0000 *.....Y.....*
60000008 50000000 00000000 D6202000 C3E7C6C9 D5C9E340 01010101 01010401 *.....O...CXFIMIT.....*
01010104 04040404 04040404 *.....O*

19FEC  CHAIN POINTER 00000
00001E00 80000000 00000000 00017A74 00000000 10013004 00020000 06000002 *.....*
00000404 04040404 04040404 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 *.....O*

1A038  CHAIN POINTER 1A084
68210A14 00000000 00140001 680E1E00 10003000 0005000A 8F900080 02000001 *.....*
020A0000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 *.....O*

1A084  CHAIN POINTER 1A1B4
686D0A10 00000000 00100001 68211E00 10003000 00060006 8B800001 020A3008 *.....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 *.....O*

1A0D0  CHAIN POINTER 19FA0
67E80000 0101A0D8 00000000 00000000 1000C392 00000000 00000000 00000000 *.Y.....Q.....C.....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 *.....O*

1A11C  CHAIN POINTER 1A0D0
68340000 0101A124 00000000 00000000 4200C518 00017E18 00000000 00000000 *.....E.....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 *.....O*

1A168  CHAIN POINTER 1A038
680E0A2B 0000680E 002B0001 685A1C00 10003000 00010021 0B000001 03813005 *.....*
002A0005 00000000 8D000000 06F40000 00000000 00000000 00000000 00000000 *.....4.....*
00000000 00000000 00000000 *.....O*

1A1B4  CHAIN POINTER 1A24C
68930A14 40000000 00140001 686D0E00 10013009 1001000A 9B800000 089A0000 *.....*
60000008 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 *.....O*

1A200  CHAIN POINTER 00000
00001E00 80000000 00000000 00017A88 00000000 10013009 00020000 06000002 *.....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 *.....O*

1A24C  CHAIN POINTER 1A298
68A60A10 00000000 00100001 68931E00 10003000 00070006 8B800001 020A300A *.....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 *.....O*

1A298  CHAIN POINTER 1A330
68CC0A14 40000000 00140001 68A60E00 1001300B 1001000A 9B800000 089A0000 *.....*

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60000008 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 * .....0*

1A2E4  CHAIN POINTER 1B500
6D400A14 40000000 00140001 68B90E00 1001300B 0002000A 9B800000 0E000002 * .....*
609E0000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 * .....0*

1A330  CHAIN POINTER 1A3C8
68F20A10 00000000 00100001 68CC1E00 10003000 00080006 8B800001 020A300C *.2.....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 * .....0*

1A37C  CHAIN POINTER 1A5DC
69770A14 40000000 00140001 68DF0E00 1001300D 1001000A 9B800000 089A0000 * .....*
60000008 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 * .....0*

1A3C8  CHAIN POINTER 1A590
69641E00 00000000 00000000 00017A98 00000000 1001300D 00000000 05010000 * .....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 * .....0*

1A414  CHAIN POINTER 1A460
69180A14 00000000 00140001 69051E00 10003000 0009000A 8F900080 02000001 * .....*
020A0000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 * .....0*

1A460  CHAIN POINTER 1A44C
692B0A10 00000000 00100001 69181E00 10003000 000A0006 8B800001 020A3018 * .....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 * .....0*

1A4AC  CHAIN POINTER 1A4F8
693E0A10 00000000 00100001 692B1E00 10003000 000B0006 8B800001 020A303A * .....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 * .....0*

1A4F8  CHAIN POINTER 1A628
698A0A10 00000000 00100001 693E1E00 10003000 000C0006 8B800001 0216303A * .....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 * .....0*

1A544  CHAIN POINTER 1A37C
68DF0000 0101A54C 00000000 00000000 1000C392 00000000 00000000 00000000 * .....C.....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 * .....0*

1A590  CHAIN POINTER 1A544
69510000 0101A598 00000000 00000000 4200C518 000182F8 00000000 00000000 * .....E...8.....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 * .....0*

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1A5DC   CHAIN POINTER 1A414
69050A2B 00006905 002B0001 69771C00 10003000 00020021 0B000001 0381300E *.....*
00440005 00000000 8D000000 06F40000 00000000 00000000 00000000 00000000 *.....4.....*
00000000 00000000 00000000 *.....O*

1A628   CHAIN POINTER 1A674
699D0A10 00000000 00100001 698A1E00 10003000 000D0006 8B800001 020A303C *.....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 *.....O*

1A674   CHAIN POINTER 1A6C0
69B00A10 00000000 00100001 699D1E00 10003000 000E0006 8B800001 0216303C *.....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 *.....O*

1A6C0   CHAIN POINTER 1A70C
69C30A10 00000000 00100001 69B01E00 10003000 000F0006 8B800001 02113000 *..C.....*
05000200 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 *.....O*

1A70C   CHAIN POINTER 1A758
69D60A10 00000000 00100001 69C31E00 10003000 00100006 8B800001 02013019 *.O.....C.....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 *.....O*

1A758   CHAIN POINTER 1A888
6A220A10 00000000 00100001 69D61E00 10003000 00110006 8B800001 0201302D *.O.....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 *.....O*

1A7A4   CHAIN POINTER 1A8D4
6A350A10 00000000 00100001 69E91E00 10003000 00120006 8B800001 0201302F *.Z.....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 *.....O*

1A7F0   CHAIN POINTER 1A83C
6A0F0A17 20000000 00170001 69FC1F00 1000302F 0001000D EB800011 01404040 *.....*
40404040 40000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 *.....O*

1A83C   CHAIN POINTER 1A920
6A480A0F 20000000 000F0001 6A0F1F00 10003030 00010005 EB80000D 01010000 *.....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 *.....O*

1A888   CHAIN POINTER 1A7A4
69E90000 0101A890 00000000 00000000 220100C8 00000041 00007604 00000000 *.Z.....H.....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 *.....O*

1A8D4   CHAIN POINTER 1A7F0
69FC0A13 00000000 00130001 6A351C00 10003000 00030009 0B000001 0280302F *.....*

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01000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....0*

1A920  CHAIN POINTER 1A96C
6A5B0A0F 20000000 000F0001 6A481F00 10003031 00010005 EB80000D 01010000 * .....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....0*

1A96C  CHAIN POINTER 1A9B8
6A6E0A0F 20000000 000F0001 6A5B1F00 10003032 00010005 EB80000D 01010000 * .....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....0*

1A9B8  CHAIN POINTER 1AA04
6A810A0F 20000000 000F0001 6A6E1F00 10003033 00010005 EB80000D 01010000 * .....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....0*

1AA04  CHAIN POINTER 1AA50
6A940A0F 20000000 000F0001 6A811F00 10003034 00010005 EB80000D 01010000 * .....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....0*

1AA50  CHAIN POINTER 1AA9C
6AA70A0F 20000000 000F0001 6A941F00 10003035 00010005 EB80000D 01010000 * .....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....0*

1AA9C  CHAIN POINTER 1AAE8
6ABA0A0F 20000000 000F0001 6AA71F00 10003036 00010005 EB80000D 01010000 * .....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....0*

1AAE8  CHAIN POINTER 1AB80
6AE00A0F 20000000 000F0001 6ABA1F00 10003037 00010005 EB80000D 01010000 * .....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....0*

1AB34  CHAIN POINTER 1AD48
6B520A0E 20000000 000E0001 6ACD1F00 10013030 00010004 EB800031 01020271 * .....*
4020C000 01000000 00000000 00000000 00000000 000008C4 C2C4C3C3 C9C3E200 * .....DBDCCICS.*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....0*

1AB80  CHAIN POINTER 1ABCC
6AF30A0E 00000000 000E0001 6AE01C00 10003030 00000004 0300006D 7C9A0000 * .3.....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....0*

1ABCC  CHAIN POINTER 1AB34
6ACD0A15 00000000 00150001 6AF31C00 10003030 0001000B 03000001 6C610283 * .....3.....*
8983A22D C1000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....A.....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....0*

```

```

1AC18      CHAIN POINTER      1AC64
6B191236  80806BC4  01490010  08001E00  30302A00  01013AC0  039100F5  C3114040  *.....D.....5C. *
1D40C5D5  E3C5D940  E3D9C1D5  E2C1C3E3  C9D6D540  C9C4114B  501DC8C5  D5E3C5D9  *. ENTER TRANSACTION ID...HENTER*
7A4040E3  D640C4C9  E2D7D3C1                                     *. TO DISPLA.....O*

1AC64      CHAIN POINTER      1ACB0
6B2C0048  E87A114C  613C4DD4  5C1D4011  4DF01D40  40114F40  1D40D7C6  4040F140  *....Y.....M.. ..0. . . PF 1 *
7E404DC9  C4F0F15D  40F3F2F7  F040C6E4  D5C3E3C9  D6D5E240  C1D5C440  C6C5C1E3  *. .ID01. 3270 FUNCTIONS AND FEAT*
E4D9C5E2  1150501D  404011D1                                     *URES.... .J.....O*

1ACB0      CHAIN POINTER      1AF10
6BC40048  601D40D7  C64040F2  407E404D  D4C6F1F6  5D40D4C1  D5C1C7C5  D4C5D5E3  *.D.... PF 2 . .MF16. MANAGEMENT*
40E2C1D3  C5E240C1  D5C1D3E8  E2C9E211  D2F01D40  4011D440  1D40D7C6  4040F340  * SALES ANALYSIS.KO. .M . PF 3 *
7E404DD4  C4F0F25D  40C8D6E2                                     *. .MDQ2. HOS.....O*

1ACFC      CHAIN POINTER      1AD94
6B650048  D7C9E3C1  D340C9D5  C6D6D9D4  C1E3C9D6  D540E2E8  E2E3C5D4  11D54F1D  *....PITAL INFORMATION SYSTEM.N..*
401D4040  11D6601D  40D7C640  40F4407E  404DC9C4  F0F45D40  C1C3C3D6  E4D5E3E2  *. .O.. PF 4 . .ID04. ACCOUNTS*
40D9C5C3  C5C9E5C1  C2D3C511                                     * RECEIVABLE.....O*

1AD48      CHAIN POINTER      1AC18
6B060A0E  00000000  000E0001  6B521C00  10013030  00010004  0300806E  91C70000  *.....G..*
00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  *.....*
00000000  00000000  00000000                                     *.....O*

1AD94      CHAIN POINTER      1AF5C
6BD70033  D7F01D40  4011D940  1D40D7C6  4040F540  7E404DC6  D5F0F35D  40E3C9C3  *.P..P0. .R . PF 5 . .FN03. TIC*
60E3C1C3  60E3D6C5  115A501D  4040115B  601D4040  1D401300  00000000  00000000  *.TAC.TOE.... . . . . . *
00000000  00000000  00000000                                     *.....O*

1ADE0      CHAIN POINTER      1B08C
6C230A10  00000000  00100001  6B781E00  10003000  00130006  8B800001  0211303D  *.....*
03C40200  07078000  00010900  00000000  00000000  00000000  00000000  00000000  *.D.....*
00000000  00000000  00000000                                     *.....O*

1AE2C      CHAIN POINTER      1AE78
6B9E0A10  00000000  00100001  6B8B1E00  10003000  00140006  8B800001  0201303D  *.....*
00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  *.....*
00000000  00000000  00000000                                     *.....O*

1AE78      CHAIN POINTER      1B0D8
6C360E12  A0000000  00160000  64001F00  303D2F00  00000001  6B800011  01010500  *.....*
00000001  00000000  00000000  00000000  00000000  00000000  00000000  00000000  *.....*
00000000  00000000  00000000                                     *.....O*

1AEC4      CHAIN POINTER      1B040
6C100A0D  0000000C  000D0001  6BB11C00  10013030  00010003  83010000  00000000  *.....*
00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  *.....*
00000000  00000000  00000000                                     *.....O*

1AF10      CHAIN POINTER      1ACFC
6B3F1202  80010000  00002200  00000000  00002600  010136C0  00000000  00000000  *.....*

```

```

00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 00000000 * .....O*

1AF5C  CHAIN POINTER 1AFF4
6BFDOA0D 00000000 00050000 00001E00 10013030 00010003 83010003 53000000 * .....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 * .....O*

1AFA8  CHAIN POINTER 1ADE0
6B781206 00000000 00000000 00000000 00000000 00000200 011000C4 4D630000 * .....D...*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 * .....O*

1AFF4  CHAIN POINTER 1AEC4
6BB10000 0101AFFC 00000000 00000000 5A011584 00018CC4 0001AFAS 00018C1C * .....D...*
00000601 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 * .....O*

1B040  CHAIN POINTER 1AFA8
6BEA0A12 00000000 00180001 6BEA1C00 10003000 0004000E 0B000001 0284303C * .....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 * .....O*

1B08C  CHAIN POINTER 1AE2C
6B8B0000 0101B094 00000000 00000000 220100C8 00000041 000076EC 00000000 * .....H...*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 * .....O*

1B0D8  CHAIN POINTER 1B254
6C950A13 00000000 00130001 6C361C00 10003000 00050009 0B000001 0280303D * .....*
01000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 * .....O*

1B124  CHAIN POINTER 1B1BC
6C6F0A10 00000000 00100001 6C491E00 10003000 00150006 8B800001 0219303D * .....*
0180303E 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 * .....O*

1B170  CHAIN POINTER 1B2A0
6CA80A10 00000000 00100001 6C5C1E00 10003000 00160006 8B800001 0211303E * .....*
04010101 01000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 * .....O*

1B1BC  CHAIN POINTER 1B170
6C5C0E0C A0000000 00102200 0C001F00 303E2F00 01000001 6B80000D 01010000 * .....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 * .....O*

1B208  CHAIN POINTER 1B2EC
6CBB0A14 40000000 00140001 6C820E00 1002300B 0181000A 9B900000 01035000 * .....*
A18A0000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 * .....O*

```

```

1B254  CHAIN POINTER 1B124
6C490A17 00000000 00170001 6C951F00 1000303D 0001000D EB800011 01404040 * ..... *
40404040 40A5D100 00000000 00000000 00000000 00000000 00000000 00000000 * .J..... *
00000000 00000000 00000000 * .....O*

1B2A0  CHAIN POINTER 1B468
6D1A0A0F 00000000 000F0001 6CA81F00 1000303E 00010005 EB80000D 01B0B200 * ..... *
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * ..... *
00000000 00000000 00000000 * .....O*

1B2EC  CHAIN POINTER 1B338
6CCE0A14 40000000 00140001 6CBB0E00 1002300B 0002000A 9B800000 08440000 * ..... *
60000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * ..... *
00000000 00000000 00000000 * .....O*

1B338  CHAIN POINTER 1B384
6CE10A14 40000000 00140001 6CCE0E00 1002300B 0183000A 9B800000 02020000 * ..... *
6098C5D9 D9D6D940 E6C8C5D5 40D9C5C1 C4C9D5C7 40D3D6C7 D6D540D4 C5E2E2C1 * ..ERROR WHEN READING LOGON MESSA*
C7C51500 00000000 00000000 *GE.....O*

1B384  CHAIN POINTER 00000
00000A18 40000000 00180001 6CE10E00 1002300B 0184000E 9B800000 01035000 * ..... *
6238A3A2 96150000 00000000 00000000 00000000 00000000 00000000 00000000 * ..... *
00000000 00000000 00000000 * .....O*

1B3D0  CHAIN POINTER 00000
00000A14 40000000 00140001 6CF40E00 1002300B 0185000A 9B800000 02021000 * .....4..... *
6098C9D5 D7E4E340 D5D6E340 D9C5C3D6 C7D5C9E9 C5C41500 00000000 00000000 * ..INPUT NOT RECOGNIZED..... *
00000000 00000000 00000000 * .....O*

1B41C  CHAIN POINTER 1A2E4
68B90000 0101B424 00000000 00000000 1000C392 0001B208 00000000 00000000 * .....C..... *
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * ..... *
00000000 00000000 00000000 * .....O*

1B468  CHAIN POINTER 1B41C
6D070000 0101B470 00000000 00000000 4200C518 00017F58 00000000 00000000 * .....E..... *
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * ..... *
00000000 00000000 00000000 * .....O*

1B4B4  CHAIN POINTER 1B208
6C820A2B 00006C82 002B0001 6D2D1C00 10003000 00060021 0B000001 0381300B * ..... *
00280005 01035000 28285000 088A0000 00000002 000007A4 85000000 00000000 * ..... *
00000000 00000000 00000000 * .....O*

1B500  CHAIN POINTER 1B54C
6D530000 0101B508 00000000 00000000 04017696 0001B2EC 00000000 00000000 * ..... *
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * ..... *
00000000 00000000 00000000 * .....O*

1B54C  CHAIN POINTER 1B4B4
6D2D0000 0101B554 00000000 00000000 060176A0 00017F0C 0001B2EC 00000000 * ..... *

```

3705 DUMP

```

00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
00000000 00000000 00000000 00000000

1B598  CHAIN POINTER 00000
0001E00 80000000 00000000 00017A90 00000000 00000000 00000000 01035000
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
00000000 00000000 00000000 00000000

1B5E4  CHAIN POINTER 1B630
6D8C0A3E 00000000 00000000 00000000 00000000 00000000 00000000 00000000
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
00000000 00000000 00000000 00000000

1B630  CHAIN POINTER 1B67C
6D9F0048 00000000 00000000 00000000 00000000 00000000 00000000 00000000
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
00000000 00000000 00000000 00000000

1B67C  CHAIN POINTER 0C000
00000048 00000000 00000000 00000000 00000000 00000000 00000000 00000000
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
00000000 00000000 00000000 00000000

1B6C8  CHAIN POINTER 1B714
6DC50000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
00000000 00000000 00000000 00000000

1B714  CHAIN POINTER 1B760
6DD80000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
00000000 00000000 00000000 00000000

1B760  CHAIN POINTER 1B7AC
6DE00000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
00000000 00000000 00000000 00000000

1B7AC  CHAIN POINTER 1B7F8
6DFE0000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
00000000 00000000 00000000 00000000

1B7F8  CHAIN POINTER 1B844
6E110000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
00000000 00000000 00000000 00000000

1B844  CHAIN POINTER 1B890
6E240000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
00000000 00000000 00000000 00000000

```

```

1B890   CHAIN POINTER 1B8DC
6E370000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 *.....O*

1B8DC   CHAIN POINTER 1B928
6E4A0000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 *.....O*

1B928   CHAIN POINTER 1B974
6E5D0000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 *.....O*

1B974   CHAIN POINTER 1B9C0
6E700000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 *.....O*

1B9C0   CHAIN POINTER 1BA0C
6E830000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 *.....O*

1BA0C   CHAIN POINTER 1BA58
6E960000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 *.....O*

1BA58   CHAIN POINTER 1BAA4
6EA90000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 *.....O*

1BAA4   CHAIN POINTER 1BAF0
6EBC0000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 *.....O*

1BAF0   CHAIN POINTER 1BB3C
6ECF0000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 *.....O*

1BB3C   CHAIN POINTER 1BB88
6EE20000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*
00000000 00000000 00000000 *.....O*

1BB88   CHAIN POINTER 1BBD4
6EF50000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 *.....*

```



```

00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 * .....0*

1BBD4  CHAIN POINTER 1BC20
6F080000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 * .....0*

1BC20  CHAIN POINTER 1BC6C
6F1B0000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 * .....0*

1BC6C  CHAIN POINTER 1BCB8
6F2E0000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 * .....0*

1BCB8  CHAIN POINTER 1BD04
6F410000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 * .....0*

1BD04  CHAIN POINTER 1BD50
6F540000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 * .....0*

1BD50  CHAIN POINTER 1BD9C
6F670000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 * .....0*

1BD9C  CHAIN POINTER 1BDE8
6F7A0000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 * .....0*

1BDE8  CHAIN POINTER 1BE34
6F8D0000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 * .....0*

1BE34  CHAIN POINTER 1BE80
6FA00000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 * .....*
00000000 00000000 00000000 * .....0*

1BE80  CHAIN POINTER 1BECC
6FB30000 00000000 00000178 BA200400 B9200080 7194E708 7688B920 00220198 * .....X.....*
EF048520 A8028508 1D819104 C5381D81 8500BF20 020011A8 A87E716C F0069906 * .....E.....0...*
717CF108 9806F130 98BCA813 *...1...1.....0*

```

```

1BECC      CHAIN POINTER 1BF18
6FC6F110 989CC9C2 DD0A512C 11889834 DDB8A850 250E2488 220ABB20 00EC0398 *.F1...IB.....*
80283710 4730B887 0188A16C 51A85081 9502A102 1188980B 6188E108 BB2000D0 *.....*
73942088 80015134 A858D520 *.....N.....O*

1BF18      CHAIN POINTER 1BF64
6FD9218E 518CE103 298DBB20 80102381 21889108 2182A83E BF200200 210E7198 *.R.....*
218E21B8 88181798 07B89808 BB208220 D510A804 BB208800 23812182 A818BB20 *.....N.....*
90A02381 BB2C8760 23859128 *.....O*

1BF64      CHAIN POINTER 1BFB0
6FECB920 006C0198 A81D2188 51048020 81005154 BF200400 57446188 D1365174 *.....J...*
A8CD719C F91011A8 67887108 C108D136 D0025174 A8E1717C E916612C D998C916 *...9...A.J...Z...R.I.*
E894B920 00386174 B9200740 *Y.....O*

1BFB0      CHAIN POINTER 19CA8
672AA8FB 610CF033 9815B920 000D6164 B9200F40 A8176788 EF04E886 A861F802 *.....0.....Y...8.*
A865BD20 20007594 2388618E B9200412 618A1382 8144B800 96C40000 0000A825 *.....D.....*
138A3307 33983398 8806A85F *.....O*

```



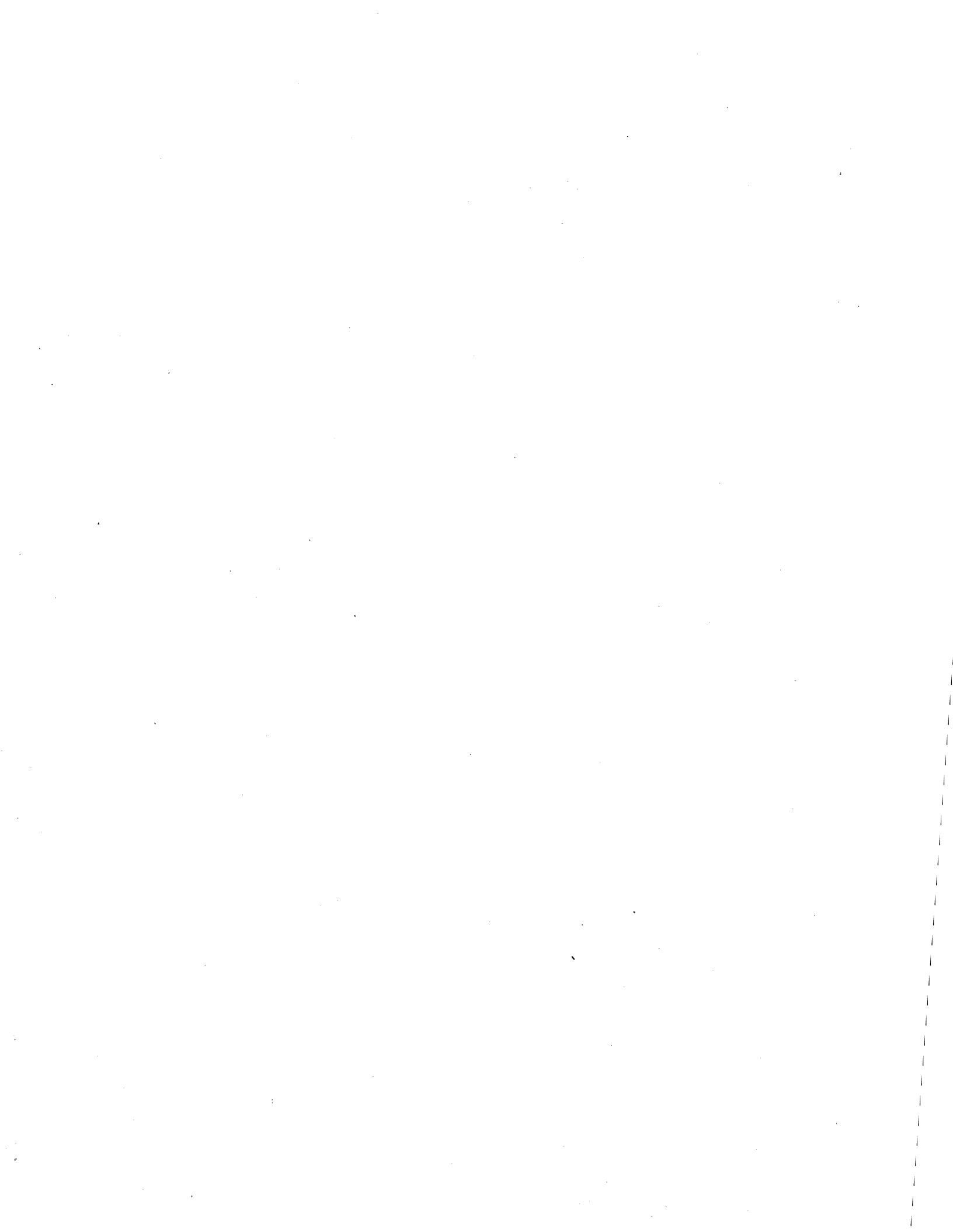
## Abbreviations

ACB	Adapter control block
APPL	Application
ATB	Address trace block
BCB	Bit control block
BCU	Block control unit
BSC	Binary synchronous
BNN	Boundary network node
CCB	Character control block
CCP	Communications control program
CSP	Character service program
CCW	Channel control word
CDS	Configuration data set
CE	Channel end
CHB	Channel control block
CIC	Channel input chain
COB	Channel operation block
COC	Channel output chain
CPM	Connection point manager
CRP	Check record pool
CSP	Character service program
CUB	Common unit physical block
CW	Channel word
DAF	Destination address field
DLC	Data link control
DVB	Device base control block
ECB	Event control block
EP	Emulation program
FID	Format identification
FIFO	First in/first out
FM	Function management
FME	Function management end
HWE	Extended halfword direct addressables
IAR	Instruction address register
ICW	Interface control word
IPL	Initial program load
LCB	Line control block
LGT	Line group table
LKB	Link control block
LNVT	Line vector table
LOBQ	Link outbound queue
LOSQ	Link outstanding queue
LTCB	Line trace control block

LTCT	Line type command table
LU	Logical unit
LUB	Logical unit control block
LUV	Logical unit vector table
LXB	Link XIO block
NCP	Network control program
NSA	Nonsequenced acknowledgement
OAF	Origin address field
OLLT	Online line test
OLTT	Online terminal test
PC	Path control
PCB	Panel control block
PCI	Program-controlled interrupt
PEP	Partitioned emulation program
PIU	Path information unit
PSB	Physical services block
QCB	Queue control block
RH	Request/response header
RQI	Request initialization
R	Receive ready
RS	Read start (RS0, RS1)
RU	Request/response unit
RVT	Resource vector table
SC	System control
SCB	Station control block
SCR	System control router table
SDLC	Synchronous data link control
SID	Send identification
SIT	Subarea index table
SM	Status modifier
SNRM	Set normal response mode
SOT	Service order table
SS	Start-stop
SSCP	System services control point
SVC	Supervisor call
SVT	Subarea vector table
TH	Transmission header
UC	Unit check
UE	Unit exception
WS	Write start (WS0, WS1)
XDA	Word direct addressables
XDB	Byte direct addressables
XDH	Halfword direct addressables

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