

**COURSE NO. QA4020-3
CYBER 18/1700 MSOS ANALYSIS**

STUDY DUMP

REVISION A

**For Training Purposes Only
Control Data Corporation**

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 back of this manual.

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MSOS ANALYSIS STUDY DUMP

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SYSCOP

80/12/12. 11.16.39.
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0059		EXT VOLR	00059
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0071		*	C O M M U N I C A T I O N R E G I O N			00071
0072		*				00072
0073	0000		ORC	0		00073
0074	0000 5800		RTJ	SYFAIL	GO TO COMMON SYSTEM FAILURE ROUTINE	00074
	0001 0184					
0075		*				00075
0076	0002 0000		LPMSK	NUM	0	LOGICAL PRODUCT MASK TABLE OF ONES
0077	0003 0001		ONE	NUM	1	ONE
0078	0004 0003		THREE	NUM	3	THREE
0079	0005 0007		SEVEN	NUM	7	SEVEN
0080	0006 000F			NUM	\$F	
0081	0007 001F			NUM	\$1F	
0082	0008 003F			NUM	\$3F	
0083	0009 007F			NUM	\$7F	
0084	000A 00FF			NUM	\$FF	
0085	000B 01FF			NUM	\$1FF	
0086	000C 03FF			NUM	\$3FF	
0087	000D 07FF			NUM	\$7FF	
0088	000E 0FFF			NUM	\$FFF	
0089	000F 1FFF			NUM	\$1FFF	
0090	0010 3FFF			NUM	\$3FFF	
0091	0011 7FFF			NUM	\$7FFF	
0092		*				LOGICAL PRODUCT MASK TABLE OF ZEROS (NEG ZERO)
0093	0012 FFFF		NZERO	NUM	\$FFFF	
0094	0013 FFFE			NUM	\$FFFE	
0095	0014 FFFC			NUM	\$FFFC	
0096	0015 FFF8			NUM	\$FFF8	
0097	0016 FFF0			NUM	\$FFF0	
0098	0017 FFE0			NUM	\$FFE0	
0099	0018 FF00			NUM	\$FF00	
0100	0019 FF80			NUM	\$FF80	
0101	001A FF00			NUM	\$FF00	
0102	001B FE00			NUM	\$FE00	
0103	001C FC00			NUM	\$FC00	
0104	001D F800			NUM	\$F800	
0105	001E F000			NUM	\$F000	
0106	001F E000			NUM	\$E000	
0107	0020 C000			NUM	\$C000	
0108	0021 8000			NUM	\$8000	

* COMMUNICATION REGION				
0110				
0111				
0112	0022	0000	ZERO NUM 0	ZERO
0113				
0114	0023	0001	ONEBIT NUM 1	ONE BIT TABLE
0115	0024	0002	TWO NUM 2	TWO
0116	0025	0004	FOUR NUM 4	FOUR
0117	0026	0008	EIGHT NUM 8	EIGHT
0118	0027	0010	NUM \$10	
0119	0028	0020	NUM \$20	
0120	0029	0040	NUM \$40	
0121	002A	0080	NUM \$80	
0122	002B	0100	NUM \$100	
0123	002C	0200	NUM \$200	
0124	002D	0400	NUM \$400	
0125	002E	0800	NUM \$800	
0126	002F	1000	NUM \$1000	
0127	0030	2000	NUM \$2000	
0128	0031	4000	NUM \$4000	
0129	0032	8000	NUM \$8000	
0130				
0131	0033	FFFE	ZROBIT NUM \$FFFE	ZERO BIT TABLE
0132	0034	FFFD	NUM \$FFFD	
0133	0035	FFFB	NUM \$FFFB	
0134	0036	FFF7	NUM \$FFF7	
0135	0037	FFEF	NUM \$FFEF	
0136	0038	FFDF	NUM \$FFDF	
0137	0039	FFBF	NUM \$FFBF	
0138	003A	FF7F	NUM \$FF7F	
0139	003B	FEFF	NUM \$FEFF	
0140	003C	FDFF	NUM \$FDFF	
0141	003D	FBFF	NUM \$FBFF	
0142	003E	F7FF	NUM \$F7FF	
0143	003F	EFFF	NUM \$EFFF	
0144	0040	DFFF	NUM \$DFFF	
0145	0041	BFFF	NUM \$BFFF	
0146	0042	7FFF	NUM \$7FFF	
0147				
0148	0043	0005	FIVE NUM 5	FIVE
0149	0044	0006	SIX NUM 6	SIX
0150	0045	0009	NINE NUM 9	NINE
0151	0046	000A	TEN NUM 10	TEN

00110
00111
00112
00113
00114
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				C O M M U N I C A T I O N R E G I O N						
				THIS AREA IS AVAILABLE FOR APPLICATIONS USE						
0153			*							00153
0154			*							00154
0155			*							00155
0156			*							00156
0157	0047	0000		NUM	0	\$47				00157
0158	0048	0000		NUM	0	\$48				00158
0159	0049	0000		NUM	0	\$49				00159
0160	004A	0000		NUM	0	\$4A				00160
0161	004B	0000		NUM	0	\$4B				00161
0162	004C	0000		NUM	0	\$4C				00162
0163	004D	0000		NUM	0	\$4D				00163
0164	004E	0000		NUM	0	\$4E				00164
0165	004F	0000		NUM	0	\$4F				00165
0166	0050	0000		NUM	0	\$50				00166
0167	0051	0000		NUM	0	\$51				00167
0168	0052	0000		NUM	0	\$52				00168
0169	0053	0000		NUM	0	\$53				00169
0170	0054	0000		NUM	0	\$54				00170
0171	0055	0000		NUM	0	\$55				00171
0172	0056	0000		NUM	0	\$56				00172
0173	0057	0000		NUM	0	\$57				00173
0174	0058	0000		NUM	0	\$58				00174
0175	0059	0000		NUM	0	\$59				00175
0176	005A	0000		NUM	0	\$5A				00176
0177	005B	0000		NUM	0	\$5B				00177
0178	005C	0000		NUM	0	\$5C				00178
0179	005D	0000		NUM	0	\$5D				00179
0180	005E	0000		NUM	0	\$5E				00180
0181	005F	0000		NUM	0	\$5F				00181
0182	0060	0000		NUM	0	\$60				00182
0183	0061	0000		NUM	0	\$61				00183
0184	0062	0000		NUM	0	\$62				00184
0185	0063	0000		NUM	0	\$63				00185
0186	0064	0000		NUM	0	\$64				00186
0187	0065	0000		NUM	0	\$65				00187
0188	0066	0000		NUM	0	\$66				00188
0189	0067	0000		NUM	0	\$67				00189
0190	0068	0000		NUM	0	\$68				00190
0191	0069	0000		NUM	0	\$69				00191
0192	006A	0000		NUM	0	\$6A				00192
0193	006B	0000		NUM	0	\$6B				00193
0194	006C	0000		NUM	0	\$6C				00194
0195	006D	0000		NUM	0	\$6D				00195
0196	006E	0000		NUM	0	\$6E				00196
0197	006F	0000		NUM	0	\$6F				00197

				C O M M U N I C A T I O N R E G I O N										
				THIS AREA IS AVAILABLE FOR APPLICATIONS USE										
0200			*											00200
0201			*											00201
0202			*											00202
0203			*											00203
0204	0070	0000		NUM	0			\$70						00204
0205	0071	0000		NUM	0			\$71						00205
0206	0072	0000		NUM	0			\$72						00206
0207	0073	0000		NUM	0			\$73						00207
0208	0074	0000		NUM	0			\$74						00208
0209	0075	0000		NUM	0			\$75						00209
0210	0076	0000		NUM	0			\$76						00210
0211	0077	0000		NUM	0			\$77						00211
0212	0078	0000		NUM	0			\$78						00212
0213	0079	0000		NUM	0			\$79						00213
0214	007A	0000		NUM	0			\$7A						00214
0215	007B	0000		NUM	0			\$7B						00215
0216	007C	0000		NUM	0			\$7C						00216
0217	007D	0000		NUM	0			\$7D						00217
0218	007E	0000		NUM	0			\$7E						00218
0219	007F	0000		NUM	0			\$7F						00219
0220	0080	0000		NUM	0			\$80						00220
0221	0081	0000		NUM	0			\$81						00221
0222	0082	0000		NUM	0			\$82						00222
0223	0083	0000		NUM	0			\$83						00223
0224	0084	0000		NUM	0			\$84						00224
0225	0085	0000		NUM	0			\$85						00225
0226	0086	0000		NUM	0			\$86						00226
0227	0087	0000		NUM	0			\$87						00227
0228	0088	0000		NUM	0			\$88						00228
0229	0089	0000		NUM	0			\$89						00229
0230	008A	0000		NUM	0			\$8A						00230
0231	008B	0000		NUM	0			\$8B						00231
0232	008C	0000		NUM	0			\$8C						00232
0233	008D	0000		NUM	0			\$8D						00233
0234	008E	0000		NUM	0			\$8E						00234
0235	008F	0000		NUM	0			\$8F						00235

		* COMMUNICATION REGION			
				* THIS AREA IS AVAILABLE FOR APPLICATIONS USE	
0238					00238
0239					00239
0240					00240
0241					00241
0242	0090 0000	NUM	0	\$90	00242
0243	0091 0000	NUM	0	\$91	00243
0244	0092 0000	NUM	0	\$92	00244
0245	0093 0000	NUM	0	\$93	00245
0246	0094 0000	NUM	0	\$94	00246
0247	0095 0000	NUM	0	\$95	00247
0248	0096 0000	NUM	0	\$96	00248
0249	0097 0000	NUM	0	\$97	00249
0250	0098 0000	NUM	0	\$98	00250
0251	0099 0000	NUM	0	\$99	00251
0252	009A 0000	NUM	0	\$9A	00252
0253	009B 0000	NUM	0	\$9B	00253
0254	009C 0000	NUM	0	\$9C	00254
0255	009D 0000	NUM	0	\$9D	00255
0256	009E 0000	NUM	0	\$9E	00256
0257	009F 0000	NUM	0	\$9F	00257
0258	00A0 0000	NUM	0	\$A0	00258
0259	00A1 0000	NUM	0	\$A1	00259
0260	00A2 0000	NUM	0	\$A2	00260
0261	00A3 0000	NUM	0	\$A3	00261
0262	00A4 0000	NUM	0	\$A4	00262
0263	00A5 0000	NUM	0	\$A5	00263
0264	00A6 0000	NUM	0	\$A6	00264
0265	00A7 0000	NUM	0	\$A7	00265
0266	00A8 0000	NUM	0	\$A8	00266
0267	00A9 0000	NUM	0	\$A9	00267
0268	00AA 0000	NUM	0	\$AA	00268
0269	00AB 0000	NUM	0	\$AB	00269
0270	00AC 0000	NUM	0	\$AC	00270
0271	00AD 0000	NUM	0	\$AD	00271
0272	00AE 0000	NUM	0	\$AE	00272
0273	00AF 0000	NUM	0	\$AF	00273
0274	00B0 0000	NUM	0	\$B0	00274
0275	00B1 0000	NUM	0	\$B1	00275
0276	00B2 0000	NUM	0	\$B2	00276

		* COMMUNICATION REGION			
0278					00278
0279					00279
0280	00B3	ORG	\$B3		00280
0281	00B3 0008	ADC	SCRCH	LOGICAL UNIT OF STANDARD SCRATCH DEVICE	00281
0282	00B4 0303	ADC	SCHSTK	ADR OF TOP OF SCHEDULER STACK	00282
0283	00B5 7FFF X AFNR	ADC	FNR	ADR OF FIND NEXT REQUEST	00283
0284	00B6 7FFF X ACOMPR	ADC	COMPRQ	ADR OF COMPLETE REQUEST	00284
0285	00B7 0145	ADC	MASKT	ADR OF MASK TABLE	00285
0286	00B8 0192	ADC	INTSTK	ADR OF TOP OF INTERRUPT STACK	00286
0287	00B9 7FFF X	ADC	REQXT	ADR OF EXIT FOR MONITOR REQUESTS	00287
0288	00BA 7FFF X AVOLR	ADC	VOLR	ADR OF RELEASE VOLATILE ROUTINE	00288
0289	00BB 7FFF X AVOLA	ADC	VOLA	ADR OF ASSIGN VOLATILE ROUTINE	00289
0290	00BC 7FFF X	ADC	LUABS	ADR OF ABSOLUTIZING ROUTINE FOR LOGICAL UNIT	00290
0291	00BD 7FFF X	ADC	SABS	ADR OF ABSOLUTIZING ROUTINE FOR STARTING ADR	00291
0292	00BE 7FFF X	ADC	CABS	ADR OF ABSOLUTIZING ROUTINE FOR COMPLETION ADR	00292
0293	00BF 7FFF X	ADC	NABS	ADR OF ABSOLUTIZING ROUTINE FOR NUMBER OF WRDS	00293
0294	00C0 0000	NUM	0	MSB OF STARTING SCRATCH SECTOR (ALWAYS ZERO)	00294
0295	00C1 0000	NUM	0	LSB OF STARTING SCRATCH SECTOR (SET BY SI)	00295
0296	00C2 0008	ADC	LRUNIT	LOGICAL UNIT OF STANDARD LIBRARY DEVICE	00296
0297	00C3 0000	NUM	0	MSB OF PCM LIB DIRECTORY SECTOR (ALWAYS ZERO)	00297
0298	00C4 0000	NUM	0	LSB OF PGM LIB DIRECTORY SECTOR (SET BY SI)	00298
0299					00299
0300	00C5 001F	BZS	(\$E3-\$C5+1)	RESERVED FOR FTN (UNPROTECTED)	00300
0301	00E4 0000	NUM	0	RESERVED FOR FTN + LOAD/GO SECTOR (UNPROTECTED)	00301
0302	00E5 0000	NUM	0	RESERVED FOR FTN (UNPROTECTED)	00302
0303					00303
0304	00E6 0001	BSS	(1)	LENGTH OF MASS RESIDENT SYSTEM DIR. (SET BY SI)	00304
0305	00E7 0001	BSS	(1)	LENGTH OF CORE RESIDENT SYSTEM DIR. (SET BY SI)	00305
0306	00E8 0000	NUM	0	REAL TIME CLOCK COUNTER	00306
0307	00E9 0155	ADC	EXTBV4	ADDR OF EXTENDED CORE TABLE	00307
0308	00EA 7FFF X ADISP	ADC	DISPXX	ADR OF DISPATCHER	00308
0309	00EB 0F76	ADC	SLDIRY	ADR OF SYSTEM DIRECTORY	00309
0310	00EC 0000	NUM	0	TEMPORARY TOP+1 OF UNPROTECTED (SET BY SI)	00310
0311	00ED 0000	NUM	0	TEMPORARY BOTTOM-1 OF UNPROTECTED (SET BY SI)	00311
0312	00EE 0000	NUM	0	USED BY JOB PROCESSOR FOR LOADER RETURNS	00312
0313	00EF FFFE	NUM	-1	CURRENT PRIORITY LEVEL	00313
0314	00F0 01E2	ADC	VOLBLK	STARTING LOCATION OF VOLATILE STORAGE	00314
0315	00F1 0008	ADC	LPRSET	LENGTH OF PRESETS TABLE	00315
0316	00F2 0F6E	ADC	APRSET	STARTING LOCATION OF PRESETS TABLE	00316
0317	00F3 0000	ADC	0	ADR OF BREAKPOINT PROGRAM IN CORE (UNPROTECTED)	00317
0318	00F4 7FFF X AMONI	ADC	MONI	ADR OF MONITOR ENTRY FOR REQUESTS	00318
0319	00F5 7FFF X	ADC	MSIZV4	HIGHEST CORE LOCATION USED BY SYSTEM	00319
0320	00F6 0000	NUM	0	TOP+1 OF UNPROTECTED (SET BY SI)	00320
0321	00F7 0000	NUM	0	BOTTOM-1 OF UNPROTECTED (SET BY SI)	00321
0322	00F8 7FFF X	ADC	JPROC	ADR OF INTERNAL INTERRUPT PROCESSOR	00322
0323	00F9 000A	ADC	STPINP	LOGICAL UNIT OF STANDARD INPUT DEVICE (FTN 1)	00323
0324	00FA 000B	ADC	BINOUT	LOGICAL UNIT OF STANDARD BINARY DEVICE (FTN 2)	00324
0325	00FB 0009	ADC	LSTOUT	LOGICAL UNIT OF STANDARD PRINT DEVICE (FTN 3)	00325
0326	00FC 0004	ADC	OUTCOM	LOGICAL UNIT OF OUTPUT COMMENT DEVICE (FTN 4)	00326
0327	00FD 0004	ADC	INPCOM	LOGICAL UNIT OF INPUT COMMENT DEVICE (FTN 4)	00327
0328	00FE 7FFF X	ADC	ALLIN	ADR OF COMMON INTERRUPT HANDLER	00328
0329	00FF 0001	BSS	(1)	1 (MEMORY INDEX) REGISTER (UNPROTECTED)	00329

sys library

Address	Hex	Hex	Hex	Label	Description	Address
0332	*			INTERRUPT REGION		00332
0333	*					00333
0334	*					00334
0335	*					00335
0336	0100	0000	LINE00	NUM 0	INTERRUPT LINE ENTRY	00336
0337	0101	54E8		RTJ- (\$F8)	GO TO INTERRUPT HANDLER ROUTINE	00337
0338	0102	000F		NUM 15	PRIORITY LEVEL OF INTERRUPT (convention)	00338
0339	0103	00F8		ADC IPROC	INTERRUPT RESPONSE FOR THE PROTECT/PARITY ERR.	00339
0340	*					00340
0341	0104	0000	LINE01	NUM 0	INTERRUPT LINE ENTRY	00341
0342	0105	54FE		RTJ- (\$FE)	GO TO INTERRUPT HANDLER ROUTINE	00342
0343	0106	000D		NUM 13	PRIORITY LEVEL OF INTERRUPT	00343
0344	0107	03E2		ADC LINI4	INTERRUPT RESPONSE FOR THE LOW SPEED I / 0	00344
0345	*					00345
0346	0108	0000	LINE02	NUM 0	INTERRUPT LINE ENTRY	00346
0347	0109	54FE		RTJ- (\$FE)	GO TO INTERRUPT HANDLER ROUTINE	00347
0348	010A	0000		NUM 0	PRIORITY LEVEL OF INTERRUPT	00348
0349	010B	03E6		ADC INVINT	INTERRUPT RESPONSE FOR THE INVALID INTERRUPTS	00349
0351	*					00351
0352	010C	0000	LINE03	NUM 0	INTERRUPT LINE ENTRY	00352
0353	010D	54FE		RTJ- (\$FE)	GO TO INTERRUPT HANDLER ROUTINE	00353
0354	010E	0009		NUM 09	PRIORITY LEVEL OF INTERRUPT	00354
0355	010F	0796		ADC R17332	INTERRUPT RESPONSE FOR THE 1733-2/856-2/4 DISK	00355
0356	*					00356
0357	0110	0000	LINE04	NUM 0	INTERRUPT LINE ENTRY	00357
0358	0111	54FE		RTJ- (\$FE)	GO TO INTERRUPT HANDLER ROUTINE	00358
0359	0112	000A		NUM 10	PRIORITY LEVEL OF INTERRUPT	00359
0360	0113	08B1		ADC R42312	INTERRUPT RESPONSE FOR THE 1742-30/120 PRINTER	00360
0361	*					00361
0362	0114	0000	LINE05	NUM 0	INTERRUPT LINE ENTRY	00362
0363	0115	54FE		RTJ- (\$FE)	GO TO INTERRUPT HANDLER ROUTINE	00363
0364	0116	0000		NUM 0	PRIORITY LEVEL OF INTERRUPT	00364
0365	0117	03E6		ADC INVINT	INTERRUPT RESPONSE FOR THE INVALID INTERRUPTS	00365
0367	*					00367
0368	0118	0000	LINE06	NUM 0	INTERRUPT LINE ENTRY	00368
0369	0119	54FE		RTJ- (\$FE)	GO TO INTERRUPT HANDLER ROUTINE	00369
0370	011A	0000		NUM 0	PRIORITY LEVEL OF INTERRUPT	00370
0371	011B	03E6		ADC INVINT	INTERRUPT RESPONSE FOR THE INVALID INTERRUPTS	00371
0373	*					00373
0374	011C	0000	LINE07	NUM 0	INTERRUPT LINE ENTRY	00374
0375	011D	54FE		RTJ- (\$FE)	GO TO INTERRUPT HANDLER ROUTINE	00375
0376	011E	000A		NUM 10	PRIORITY LEVEL OF INTERRUPT	00376
0377	011F	06E0		ADC R17323	INTERRUPT RESPONSE FOR THE 1732-3/616 MAG TAPE	00377
0378	*					00378

INT. TRAP
 REGION STARTS AT
 LOCATION \$100
 Address of handler for this int. line
 Puts current protect on stack



parameter list

0379	0120	0000	LINE08	NUM	0	INTERRUPT LINE ENTRY	00379
0380	0121	54FE		RTJ-	(\$FE)	GO TO INTERRUPT HANDLER ROUTINE	00380
0381	0122	0000		NUM	0	PRIORITY LEVEL OF INTERRUPT	00381
0382	0123	03E6		ADC	INVINT	INTERRUPT RESPONSE FOR THE INVALID INTERRUPTS	00382
0384			*				00384
0385	0124	0000	LINE09	NUM	0	INTERRUPT LINE ENTRY	00385
0386	0125	54FE		RTJ-	(\$FE)	GO TO INTERRUPT HANDLER ROUTINE	00386
0387	0126	0000		NUM	0	PRIORITY LEVEL OF INTERRUPT	00387
0388	0127	03E6		ADC	INVINT	INTERRUPT RESPONSE FOR THE INVALID INTERRUPTS	00388
0390			*				00390
0391	0128	0000	LINE10	NUM	0	INTERRUPT LINE ENTRY	00391
0392	0129	54FE		RTJ-	(\$FE)	GO TO INTERRUPT HANDLER ROUTINE	00392
0393	012A	0000		NUM	0	PRIORITY LEVEL OF INTERRUPT	00393
0394	012B	03E6		ADC	INVINT	INTERRUPT RESPONSE FOR THE INVALID INTERRUPTS	00394
0396			*				00396
0397	012C	0000	LINE11	NUM	0	INTERRUPT LINE ENTRY	00397
0398	012D	54FE		RTJ-	(\$FE)	GO TO INTERRUPT HANDLER ROUTINE	00398
0399	012E	000E		NUM	14	PRIORITY LEVEL OF INTERRUPT	00399
0400	012F	08CC		ADC	R17293	INTERRUPT RESPONSE FOR THE 1729-3 CARD READER	00400
0401			*				00401
0402	0130	0000	LINE12	NUM	0	INTERRUPT LINE ENTRY	00402
0403	0131	54FE		RTJ-	(\$FE)	GO TO INTERRUPT HANDLER ROUTINE	00403
0404	0132	0000		NUM	0	PRIORITY LEVEL OF INTERRUPT	00404
0405	0133	03E6		ADC	INVINT	INTERRUPT RESPONSE FOR THE INVALID INTERRUPTS	00405
0407			*				00407
0408	0134	0000	LINE13	NUM	0	INTERRUPT LINE ENTRY	00408
0409	0135	54FE		RTJ-	(\$FE)	GO TO INTERRUPT HANDLER ROUTINE	00409
0410	0136	0000		NUM	0	PRIORITY LEVEL OF INTERRUPT	00410
0411	0137	03E6		ADC	INVINT	INTERRUPT RESPONSE FOR THE INVALID INTERRUPTS	00411
0413			*				00413
0414	0138	0000	LINE14	NUM	0	INTERRUPT LINE ENTRY	00414
0415	0139	54FE		RTJ-	(\$FE)	GO TO INTERRUPT HANDLER ROUTINE	00415
0416	013A	000E		NUM	14	PRIORITY LEVEL OF INTERRUPT	00416
0417	013B	0717		ADC	R1731U	INTERRUPT RESPONSE FOR THE 1731/601 MAG TAPE	00417
0418			*				00418
0419	013C	0000	LINE15	NUM	0	INTERRUPT LINE ENTRY	00419
0420	013D	54FE		RTJ-	(\$FE)	GO TO INTERRUPT HANDLER ROUTINE	00420
0421	013E	0000		NUM	0	PRIORITY LEVEL OF INTERRUPT	00421
0422	013F	03E6		ADC	INVINT	INTERRUPT RESPONSE FOR THE INVALID INTERRUPTS	00422

1

SYSDAT

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0425		*	CORE RESIDENT DEBUG ENTRIES	00425
0427	0140		ORG \$140	00427
0429			EXT COU4V4	00429
0430			EXT COBOP	00430
0432	0140 1400 X 0141 7FFF X		JMP+ COU4V4 OFF-LINE CORE DUMP	00432
0434	0142 1400 X 0143 7FFF X		JMP+ COBOP SYSTEM CHECKOUT-BOOTSTRAP	00434

INTERRUPT MASK TABLE

ENT MASKT INTERRUPT MASKS INDEXED BY PRIORITY LEVEL

← *disk* *read* *slow interrupt*

----- INTERRUPT LINE NUMBER

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	
P -1	*	0	1	0	0	1	0	0	0	1	0	0	1	1	0	1	1
R 0	*	0	1	0	0	1	0	0	0	1	0	0	1	1	0	1	1
I 1	*	0	1	0	0	1	0	0	0	1	0	0	1	1	0	1	1
O 2	*	0	1	0	0	1	0	0	0	1	0	0	1	1	0	1	1
R 3	*	0	1	0	0	1	0	0	0	1	0	0	1	1	0	1	1
I 4	*	0	1	0	0	1	0	0	0	1	0	0	1	1	0	1	1
T 5	*	0	1	0	0	1	0	0	0	1	0	0	1	1	0	1	1
Y 6	*	0	1	0	0	1	0	0	0	1	0	0	1	1	0	1	1
7	*	0	1	0	0	1	0	0	0	1	0	0	1	1	0	1	1
L 8	*	0	1	0	0	1	0	0	0	1	0	0	1	1	0	1	1
E 9	*	0	1	0	0	1	0	0	0	1	0	0	1	0	0	1	1
V 10	*	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	1
E 11	*	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	1
L 12	*	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	1
. 13	*	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	1
. 14	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
V 15	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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 0465 0144 489B
 0466 0145 489B
 0467 0146 489B
 0468 0147 489B
 0469 0148 489B
 0470 0149 489B
 0471 014A 489B
 0472 014B 489B
 0473 014C 489B
 0474 014D 489B
 0475 014E 4893
 0476 014F 4803
 0477 0150 4803
 0478 0151 4803
 0479 0152 4801
 0480 0153 0001
 0481 0154 0000

MASKT

NUM \$489B PRIORITY LEVEL -1
 NUM \$489B PRIORITY LEVEL 00
 NUM \$489B PRIORITY LEVEL 01
 NUM \$489B PRIORITY LEVEL 02
 NUM \$489B PRIORITY LEVEL 03
 NUM \$489B PRIORITY LEVEL 04
 NUM \$489B PRIORITY LEVEL 05
 NUM \$489B PRIORITY LEVEL 06
 NUM \$489B PRIORITY LEVEL 07
 NUM \$489B PRIORITY LEVEL 08
 NUM \$4893 PRIORITY LEVEL 09
 NUM \$4803 PRIORITY LEVEL 10
 NUM \$4803 PRIORITY LEVEL 11
 NUM \$4803 PRIORITY LEVEL 12
 NUM \$4801 PRIORITY LEVEL 13
 NUM \$0001 PRIORITY LEVEL 14
 NUM \$0000 PRIORITY LEVEL 15

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0483	*	EXTENDED COMMUNICATIONS REGION	00483
0484	*		00484
0485	*	REFERENCED THRU LOCATION \$E9	00485

0487		ENT	MAXSEC	00487
0488		ENT	MPFLAG	00488
0489		EXT	RCTV	00489
0490		EXT	ENDOV4	00490
0491		EXT	DATBAS	00491
0492		EXT	SECTOR	00492
0493	0000	EQU	CSYLST(9)	00493
0494	000A	EQU	CSYINP(10)	00494
0495	000B	EQU	CSYPUN(11)	00495
0496	7FFF	EQU	JFILV4(\$7FFF)	00496
0497	0000	EQU	SECT1(0)	00497
0498	0000	EQU	SECT3(0)	00498
0499	0000	EQU	SECT4(0)	00499

0501	0155	0000	EXTBV4	ADC	0	00	MODE SWITCH	32K=0 65K=1	00501
0502	0156	000A		ADC	CSYINP	01	STANDARD COSY INPUT	LU NUMBER	00502
0503	0157	000B		ADC	CSYPUN	02	STANDARD COSY OUTPUT	LU NUMBER	00503
0504	0158	0009		ADC	CSYLST	03	STANDARD COSY LIST	LU NUMBER	00504
0505	0159	0000		ADC	0	04	FIRST SECTOR LSB OF SYSTEM CORE IMAGE		00505
0506	015A	0000		ADC	0	05	FIRST SECTOR LSB OF S. A. T.		00506
0507	015B	0000		ADC	0	06	FIRST SECTOR LSB OF CREP TABLE		00507
0508	015C	0000		ADC	0	07	FIRST SECTOR LSB OF CREP1 TABLE		00508
0509	015D	7FFF		ADC	JFILV4	08	FIRST SECTOR LSB OF JOB FILE DIRECTORY		00509
0510	015E	7FFF	X	ADC	RCTV	09	ADDRESS OF RCTV TABLE IN THE MONITOR		00510
0511	015F	0000		ADC	0	10	UNPROTECTED CORE FLAG	0=PART0 / 1=PART1	00511
0512	0160	0000		ADC	0	11	UNPROTECTED SWAP ALLOWED	0=YES / 1=NO	00512
0513	0161	0F5D		ADC	AYERTO	12	ADDRESS LOCATION CONTAINING THE YEAR		00513
0514	0162	0F5E		ADC	AMONTO	13	ADDRESS LOCATION CONTAINING THE MONTH		00514
0515	0163	0F5F		ADC	ADAYTO	14	ADDRESS LOCATION CONTAINING THE DAY		00515
0516	0164	7FFF	X	ADC	ENDOV4	15	LAST ADDRESS OF PART 0 CORE		00516
0517	0165	0000		ADC	0	16	FIRST ADDRESS OF BLANK (SYSTEM) COMMON		00517
0518	0166	7FFF	X	ADC	DATBAS	17	FIRST ADDRESS OF LABELED COMMON		00518
0519	0167	0000		ADC	0	18	COSY DRIVER CURRENT PHYSTAB ADDRESS		00519
0520	0168	0000		ADC	0	19	JOB TABLE INITIALIZATION FLAG		00520
0521	0169	0000		ADC	0	20	MASS MEMORY LOCATION OF ENGINEERING FILE		00521
0522	016A	0000		ADC	SECT1	21	MSB OF MAXIMUM SCRATCH SECTOR		00522
0523	016B	7FFF	X	MAXSEC	ADC	22	LSB OF MAXIMUM SCRATCH SECTOR		00523
0524	016C	0000		ADC	SECT3	23	MSB OF MAXIMUM LIBRARY SECTOR		00524
0525	016D	0000		ADC	SECT4	24	LSB OF MAXIMUM LIBRARY SECTOR		00525
0526	016E	0000		ADC	0	25	LAST ADDRESS OF LABELED COMMON		00526
0527	016F	0000		ADC	0	26	UNUSED		00527
0528	0170	0000	MPFLAG	ADC	0	27	ZERO IF NOT AN MP SYSTEM		00528
0529	0171	0367		ADC	LOG1A	28	ADDRESS OF LOG1A TABLE		00529

Background in 0/1
can it swap?

0531		*		S Y S T E M	I D E N T I F I C A T I O N	00531
0532		*				00532
0534			ENT	SYSD		00534
0535			EXT	SYSMON	MONTH SYSTEM WAS BUILT	00535
0536			EXT	SYSDAY	DAY SYSTEM WAS BUILT	00536
0537			EXT	SYSYER	YEAR SYSTEM WAS BUILT	00537
0539	0172	2048	SYSD	ALF	16, HOUSE II	00539
	0173	4F55				
	0174	5345				
	0175	2049				
	0176	4920				
	0177	2020				
	0178	2020				
	0179	2020				
	017A	2020				
	017B	2020				
	017C	2020				
	017D	2020				
	017E	2020				
	017F	2020				
	0180	2020				
	0181	2020				
0540	0182	7FFF	X	ADC	SYSMON	00540
0541	0183	7FFF	X	ADC	SYSDAY	00541
0542	0184	7FFF	X	ADC	SYSYER	00542
0544			*		COMMON SYSTEM FAILURE ROUTINE	00544
0546				ENT	SYFAIL	00546
0548	0185	0B00		SYFAIL	NOP 0	00548
0549	0186	0500			IIN 0	00549
0550	0187	6808		STA*	SAVEA	00550
0551	0188	4808		STQ*	SAVEQ	00551
0552	0189	080C		TRM	A	00552
0553	018A	6807		STA*	SAVEM	00553
0554	018B	C8F9		LDA*	SYFAIL	00554
0555	018C	09FD		IMA	-2	00555
0556	018D	68F7		STA*	SYFAIL	00556
0557	018E	18FF		NUM	\$18FF	00557
					HANG	
0559	018F	0000		SAVEA	NUM 0	00559
0560	0190	0000		SAVEQ	NUM 0	00560
0561	0191	0000		SAVEM	NUM 0	00561

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0563      *          S T O R A G E   S T A C K S
0564      *
0565      *
0566      0010  N U M P R I  E Q U  N U M P R I ( 1 6 )   N U M B E R  O F  S Y S T E M  P R I O R I T Y  L E V E L S
0567      0000  E X T V O L  E Q U  E X T V O L ( 0 0 )   A M O U N T  O F  E X T R A  V O L A T I L E  S T O R A G E
0568      *
0569      0000  N F T N L V  E Q U  N F T N L V ( 0 )     N U M B E R  O F  R E E N T R A N T  F O R T R A N  L E V E L S
0570      0000  N E D L V L  E Q U  N E D L V L ( 0 )     N U M B E R  O F  R E E N T R A N T  E N C O D E / D E C O D E  L E V E L S

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00564
00565
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00569
00570

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0572      *
0573      *          I N T E R R U P T   S T A C K
0574      *
0575      *          E N T   I N T S T K           C O N T E N T S ,   1 = Q - R E G I S T E R
0576      *                                     2 = A - R E G I S T E R
0577      *                                     3 = I - R E G I S T E R
0578      *                                     4 = P - R E G I S T E R
0579      *                                     5 = P R I O R I T Y  L E V E L  A N D  O V E R F L O W
0580      *                                     I N D I C A T O R  ( B I T  1 5 )
0581      *
0582      0192 0050  I N T S T K  B Z S   I N T S T K ( 5 * N U M P R I )

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00582

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0584      *
0585      *          V O L A T I L E   B L O C K   S T A C K
0586      *
0587      *          E N T   V O L B L K           C O N T E N T S ,   1 = Q - R E G I S T E R
0588      *          E N T   V O L E N D           2 = A - R E G I S T E R
0589      *                                     3 = I - R E G I S T E R
0590      *                                     4 = U S E R  A S S I G N M E N T S
0591      *                                     .
0592      *                                     N = U S E R  A S S I G N M E N T S
0593      *
0594      01E2 0121  V O L B L K  B Z S   V O L B L K ( 1 8 * N U M P R I + 9 8 * N F T N L V + 5 7 * N E D L V L + E X T V O L + 1 )
0595      0303  V O L E N D  E Q U  V O L E N D ( * )     E N D  O F  V O L A T I L E

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0597      *
0598      *          S C H E D U L E R / T I M E R   S T A C K
0599      *
0600      *          E N T   S C H S T K           C O N T E N T S ,   1 = S C H E D U L E R  C A L L
0601      *          E N T   S C H L N G           2 = S T A R T I N G  A D D R E S S
0602      *                                     3 = T H R E A D  T O  N E X T  C A L L
0603      0303  S C H S T K  E Q U  S C H S T K ( * )     4 = Q - R E G I S T E R  C O N T E N T S
0605      0303 0000      A D C   0,0,*+2,0   S C H E D U L E R  S T A C K  E N T R Y   0 0 1
0606      0304 0000
0607      0305 0307
0608      0306 0000

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00597
00598
00599
00600
00601
00602
00603
00605

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How Much Volatile do you Need.
Allocation Formula for determining amt. Volatile

$$\begin{aligned}
& (18 \text{ words}) \times (\# \text{ priority lvs}) \\
& + \\
& (98 \text{ words}) \times (\# \text{ Ftn levels}) \\
& + \\
& (57) \times (\# \text{ ENCODE/DECODE levels}) \\
& + \\
& \text{SLOP} \\
& + \\
& 1
\end{aligned}$$

0607	0307 0000 0308 0000 0309 030B 030A 0000	ADC 0,0,*+2,0	SCHEDULER STACK ENTRY 002	00607
0608	030B 0000 030C 0000 030D 030F 030E 0000	ADC 0,0,*+2,0	SCHEDULER STACK ENTRY 003	00608
0609	030F 0000 0310 0000 0311 0313 0312 0000	ADC 0,0,*+2,0	SCHEDULER STACK ENTRY 004	00609
0610	0313 0000 0314 0000 0315 0317 0316 0000	ADC 0,0,*+2,0	SCHEDULER STACK ENTRY 005	00610
0611	0317 0000 0318 0000 0319 031B 031A 0000	ADC 0,0,*+2,0	SCHEDULER STACK ENTRY 006	00611
0612	031B 0000 031C 0000 031D 031F 031E 0000	ADC 0,0,*+2,0	SCHEDULER STACK ENTRY 007	00612
0613	031F 0000 0320 0000 0321 0323 0322 0000	ADC 0,0,*+2,0	SCHEDULER STACK ENTRY 008	00613
0614	0323 0000 0324 0000 0325 0327 0326 0000	ADC 0,0,*+2,0	SCHEDULER STACK ENTRY 009	00614
0615	0327 0000 0328 0000 0329 032B 032A 0000	ADC 0,0,*+2,0	SCHEDULER STACK ENTRY 010	00615
0616	032B 0000 032C 0000 032D 032F 032E 0000	ADC 0,0,*+2,0	SCHEDULER STACK ENTRY 011	00616
0617	032F 0000 0330 0000 0331 0333 0332 0000	ADC 0,0,*+2,0	SCHEDULER STACK ENTRY 012	00617
0618	0333 0000 0334 0000 0335 0337 0336 0000	ADC 0,0,*+2,0	SCHEDULER STACK ENTRY 013	00618

0620	0337 0000	ADC 0,0,*+2,0	SCHEDULER STACK ENTRY 014	00620
	0338 0000			
	0339 033B			
	033A 0000			
0621	033B 0000	ADC 0,0,*+2,0	SCHEDULER STACK ENTRY 015	00621
	033C 0000			
	033D 033F			
	033E 0000			
0622	033F 0000	ADC 0,0,*+2,0	SCHEDULER STACK ENTRY 016	00622
	0340 0000			
	0341 0343			
	0342 0000			
0623	0343 0000	ADC 0,0,*+2,0	SCHEDULER STACK ENTRY 017	00623
	0344 0000			
	0345 0347			
	0346 0000			
0624	0347 0000	ADC 0,0,*+2,0	SCHEDULER STACK ENTRY 018	00624
	0348 0000			
	0349 034B			
	034A 0000			
0625	034B 0000	ADC 0,0,*+2,0	SCHEDULER STACK ENTRY 019	00625
	034C 0000			
	034D 034F			
	034E 0000			
0626	034F 0000	ADC 0,0,*+2,0	SCHEDULER STACK ENTRY 020	00626
	0350 0000			
	0351 0353			
	0352 0000			
0627	0353 0000	ADC 0,0,*+2,0	SCHEDULER STACK ENTRY 021	00627
	0354 0000			
	0355 0357			
	0356 0000			
0628	0357 0000	ADC 0,0,*+2,0	SCHEDULER STACK ENTRY 022	00628
	0358 0000			
	0359 035B			
	035A 0000			
0629	035B 0000	ADC 0,0,*+2,0	SCHEDULER STACK ENTRY 023	00629
	035C 0000			
	035D 035F			
	035E 0000			
0630	035F 0000	ADC 0,0,*+2,0	SCHEDULER STACK ENTRY 024	00630
	0360 0000			
	0361 0363			
	0362 0000			
0631	0363 0000	ADC 0,0,(-),0	SCHEDULER STACK ENTRY 025	00631
	0364 0000			
	0365 FFFF	END OF THREAD.		
	0366 0000			
0632	0064	SCHLNG EQU SCHLNG(*-SCHSTK)	SCHEDULER STACK LENGTH	00632

		* LOGICAL UNIT TABLES (LOGIA)			
		* * *			
		* * *			
		ENT LOGIA		PHYSICAL DEVICES ADDRESSES BY LOGICAL UNIT	
		ENT NUMLU			
0634					00634
0635					00635
0636					00636
0637					00637
0638					00638
0640	0367 001B	LOGIA	ADC NUMLU	NUMBER OF LOGICAL UNITS	00640
0641	0368 03E9		ADC PCORE	1 CORE ALLOCATOR	00641
0642	0369 03F9		ADC PDUMMY	2 DUMMY LOGICAL UNIT	00642
0643	036A 03F9		ADC PDUMMY	3 DUMMY LOGICAL UNIT	00643
0644	036B 0409		ADC P1711	4 1711 TELETYPE, 713-10 CRT	00644
0645	036C 041C		ADC PCOSY1	5 COSY DRIVER, FIRST UNIT	00645
0646	036D 06E3		ADC P73230	6 1732-3 616-73/93/95 MAG TAPE UNIT 0	00646
0647	036E 06FD		ADC P73231	7 1732-3 616 MAG TAPE UNIT 1	00647
0648	036F 0799		ADC P73320	8 1733-2 856-2/4 DISK, UNIT 0	00648
0649	0370 08B4		ADC P42312	9 1742-30/120 LINE PRINTER	00649
0650	0371 08CF		ADC P17293	10 1729-3 CARD READER	00650
0651	0372 03F9		ADC PDUMMY	11 DUMMY LOGICAL UNIT	00651
0652	0373 08B4	FTN742	ADC P42312	12 1742-30/120 FORTRAN LINE PRINTER	00652
0653	0374 03F9		ADC PDUMMY	13 DUMMY LOGICAL UNIT	00653
0654	0375 0766		ADC PTSIM1	14 MAG TAPE SIMULATOR, UNIT 1	00654
0655	0376 077E		ADC PTSIM2	15 MAG TAPE SIMULATOR, UNIT 2	00655
0656	0377 071A		ADC P731U0	16 UNBUFFERED 1731-601 MAG TAPE, UNIT 0	00656
0657	0378 0734		ADC P731U1	17 UNBUFFERED 1731-601 MAG TAPE, UNIT 1	00657
0658	0379 0825		ADC P73321	18 1733-2 856-2/4 DISK, UNIT 1	00658
0659	037A 074E		ADC PTSIM0	19 MAG TAPE SIMULATOR, UNIT 0	00659
0660	037B 04FD		ADC PCOSY2	20 COSY DRIVER, SECOND UNIT	00660
0661	037C 0409	X1711	ADC P1711	21 DIAGNOSTIC 1711 TELETYPE, 713-10 CRT	00661
0662	037D 08CF	X17293	ADC P17293	22 DIAGNOSTIC 1729-3 CARD READER	00662
0663	037E 06E3	X73230	ADC P73230	23 DIAGNOSTIC 1732-3 616 MAG TAPE, UNIT 0	00663
0664	037F 08B4	X42312	ADC P42312	24 DIAGNOSTIC 1742-30/120 LINE PRINTER	00664
0665	0380 071A	X731U0	ADC P731U0	25 DIAGNOSTIC 1731-601 MAG TAPE, UNIT 0	00665
0666	0381 0734	X731U1	ADC P731U1	26 DIAGNOSTIC 1731-601 MAG TAPE, UNIT 1	00666
0667	0382 06FD	X73231	ADC P73231	27 DIAGNOSTIC 1732-3 616 MAG TAPE, UNIT 1	00667
0668	001B	NUMLU	EQU NUMLU(*-LOGIA-1)		00668

		LOGICAL UNIT TABLES (LOG1)				
0670	*				00670	
0671	*				00671	
0672	*				00672	
0673		ENT	LOG1	LOGICAL UNIT INFORMATION BY LOGICAL UNIT	00673	
0674	*			BIT 14 = 1, IMPLIES LU SHARES DEVICE	00674	
0675	*			BIT 13 = 1, IMPLIES LU IS MARKED DOWN	00675	
0676	*			BIT 12 = RW MESSAGE BIT	00676	
0677	*			BITS 0 - 11 IS ALTERNATE LOGICAL UNIT	00677	
0678	*			ALTERNATE = 0, IMPLIES NONE	00678	
0679	4000 S	EQU	S(\$4000)	SHARED BIT	00679	
0681	0383 001B	LOG1	ADC	NUMLU	NUMBER OF LOGICAL UNITS	00681
0682	0384 0000		ADC	0	1 CORE ALLOCATOR	00682
0683	0385 4000		ADC	0+S	2 DUMMY LOGICAL UNIT	00683
0684	0386 4000		ADC	0+S	3 DUMMY LOGICAL UNIT	00684
0685	0387 4000		ADC	13+S	4 1711 TELETYPE, 713-10 CRT	00685
0686	0388 0000		ADC	0	5 COSY DRIVER, FIRST UNIT	00686
0687	0389 4000		ADC	0+S	6 1732-3 616-73/93/95 MAG TAPE UNIT 0	00687
0688	038A 4000		ADC	0+S	7 1732-3 616 MAG TAPE UNIT 1	00688
0689	038B 0000		ADC	0	8 1733-2 856-2/4 DISK, UNIT 0	00689
0690	038C 4000		ADC	0+S	9 1742-30/120 LINE PRINTER	00690
0691	038D 4000		ADC	0+S	10 1729-3 CARD READER	00691
0692	038E 4000		ADC	0+S	11 DUMMY LOGICAL UNIT	00692
0693	038F 4000		ADC	0+S	12 1742-30/120 FORTRAN LINE PRINTER	00693
0694	0390 4000		ADC	0+S	13 DUMMY LOGICAL UNIT	00694
0695	0391 0000		ADC	0	14 MAG TAPE SIMULATOR, UNIT 1	00695
0696	0392 0000		ADC	0	15 MAG TAPE SIMULATOR, UNIT 2	00696
0697	0393 4000		ADC	0+S	16 UNBUFFERED 1731-601 MAG TAPE, UNIT 0	00697
0698	0394 4000		ADC	0+S	17 UNBUFFERED 1731-601 MAG TAPE, UNIT 1	00698
0699	0395 0000		ADC	0	18 1733-2 856-2/4 DISK, UNIT 1	00699
0700	0396 0000		ADC	0	19 MAG TAPE SIMULATOR, UNIT 0	00700
0701	0397 0000		ADC	0	20 COSY DRIVER, SECOND UNIT	00701
0702	0398 4000		ADC	0+S	21 DIAGNOSTIC 1711 TELETYPE, 713-10 CRT	00702
0703	0399 4000		ADC	0+S	22 DIAGNOSTIC 1729-3 CARD READER	00703
0704	039A 4000		ADC	0+S	23 DIAGNOSTIC 1732-3 616 MAG TAPE, UNIT 0	00704
0705	039B 4000		ADC	0+S	24 DIAGNOSTIC 1742-30/120 LINE PRINTER	00705
0706	039C 4000		ADC	0+S	25 DIAGNOSTIC 1731-601 MAG TAPE, UNIT 0	00706
0707	039D 4000		ADC	0+S	26 DIAGNOSTIC 1731-601 MAG TAPE, UNIT 1	00707
0708	039E 4000		ADC	0+S	27 DIAGNOSTIC 1732-3 616 MAG TAPE, UNIT 1	00708

Dum

		LOGICAL UNIT TABLES (LOG2)				
		ENT	LOG2	TOP OF I/O THREAD ADDRESSES BY LOGICAL UNIT		
0710	*					00710
0711	*					00711
0712	*					00712
0713						00713
0715	039F 001B	LOG2	ADC	NUMLU	NUMBER OF LOGICAL UNITS	00715
0716	03A0 FFFF		NUM	FFFF	1 CORE ALLOCATOR	00716
0717	03A1 FFFF		NUM	FFFF	2 DUMMY LOGICAL UNIT	00717
0718	03A2 FFFF		NUM	FFFF	3 DUMMY LOGICAL UNIT	00718
0719	03A3 FFFF		NUM	FFFF	4 1711 TELETYPE, 713-10 CRT	00719
0720	03A4 FFFF		NUM	FFFF	5 COSY DRIVER, FIRST UNIT	00720
0721	03A5 11FF		NUM	FFFF	6 1732-3 616-73/93/95 MAG TAPE UNIT 0	00721
0722	03A6 FFFF		NUM	FFFF	7 1732-3 616 MAG TAPE UNIT 1	00722
0723	03A7 FFFF		NUM	FFFF	8 1733-2 856-2/4 DISK, UNIT 0	00723
0724	03A8 FFFF		NUM	FFFF	9 1742-30/120 LINE PRINTER	00724
0725	03A9 FFFF		NUM	FFFF	10 1729-3 CARD READER	00725
0726	03AA FFFF		NUM	FFFF	11 DUMMY LOGICAL UNIT	00726
0727	03AB FFFF		NUM	FFFF	12 1742-30/120 FORTRAN LINE PRINTER	00727
0728	03AC FFFF		NUM	FFFF	13 DUMMY LOGICAL UNIT	00728
0729	03AD FFFF		NUM	FFFF	14 MAG TAPE SIMULATOR, UNIT 1	00729
0730	03AE FFFF		NUM	FFFF	15 MAG TAPE SIMULATOR, UNIT 2	00730
0731	03AF FFFF		NUM	FFFF	16 UNBUFFERED 1731-601 MAG TAPE, UNIT 0	00731
0732	03B0 FFFF		NUM	FFFF	17 UNBUFFERED 1731-601 MAG TAPE, UNIT 1	00732
0733	03B1 FFFF		NUM	FFFF	18 1733-2 856-2/4 DISK, UNIT 1	00733
0734	03B2 FFFF		NUM	FFFF	19 MAG TAPE SIMULATOR, UNIT 0	00734
0735	03B3 FFFF		NUM	FFFF	20 COSY DRIVER, SECOND UNIT	00735
0736	03B4 FFFF		NUM	FFFF	21 DIAGNOSTIC 1711 TELETYPE, 713-10 CRT	00736
0737	03B5 FFFF		NUM	FFFF	22 DIAGNOSTIC 1729-3 CARD READER	00737
0738	03B6 FFFF		NUM	FFFF	23 DIAGNOSTIC 1732-3 616 MAG TAPE, UNIT 0	00738
0739	03B7 FFFF		NUM	FFFF	24 DIAGNOSTIC 1742-30/120 LINE PRINTER	00739
0740	03B8 FFFF		NUM	FFFF	25 DIAGNOSTIC 1731-601 MAG TAPE, UNIT 0	00740
0741	03B9 FFFF		NUM	FFFF	26 DIAGNOSTIC 1731-601 MAG TAPE, UNIT 1	00741
0742	03BA FFFF		NUM	FFFF	27 DIAGNOSTIC 1732-3 616 MAG TAPE, UNIT 1	00742

0744		*	D I A G N O S T I C T A B L E S			00744	
0745		*				00745	
0746		*				00746	
0747			ENT	ALTERR	ALTERNATE DEVICE ERROR TABLE	00747	
0749	03BB 001B		ALTERR	ADC	NUMLU	ERROR TABLE SIZE	00749
0750	03BC 001B		BZS	(NUMLU)		SPACE FOR MAXIMUM SIMULTANEOUS FAILURES	00750
0752			ENT	DGNTAB	DIAGNOSTIC TIMER TABLE	00752	
0754	03D7		DGNTAB	EQU	DGNTAB(*)	START OF TABLE	00754
0755	03D7 03E9		ADC	PCORE		1 CORE ALLOCATOR	00755
0756	03D8 0409		ADC	P1711		4 1711 TELETYPE, 713-10 CRT	00756
0757	03D9 06E3		ADC	P73230		6 1732-3 616-73/93/95 MAG TAPE UNIT 0	00757
0758	03DA 06FD		ADC	P73231		7 1732-3 616-73/93/95 MAG TAPE UNIT 1	00758
0759	03DB 0799		ADC	P73320		8 1733-2 856-2/4 DISK, UNIT 0	00759
0760	03DC 08B4		ADC	P42312		9 1742-30/120 LINE PRINTER	00760
0761	03DD 08CF		ADC	P17293		10 1729-3 CARD READER	00761
0762	03DE 071A		ADC	P731U0		16 UNBUFFERED 1731-601 MAG TAPE, UNIT 0	00762
0763	03DF 0734		ADC	P731U1		17 UNBUFFERED 1731-601 MAG TAPE, UNIT 1	00763
0764	03E0 0825		ADC	P73321		18 1733-2 856-2/4 DISK, UNIT 1	00764
0765	03E1 FFFF		NUM	\$\$\$\$		END OF TABLE	00765

? what happens
with core allocator
times out?



	*	STANDARD LOGICAL UNITS		
0768	*			00768
0769	*			00769
0770		ENT DUMALT		00770
0771	*			00771
0772	000D	DUMALT EQU DUMALT(13)	STANDARD DUMMY ALTERNATE	00772
0773	0004	INPCOM EQU INPCOM(4)	STANDARD INPUT COMMENT	00773
0774	0004	OUTCOM EQU OUTCOM(4)	STANDARD OUTPUT COMMENT	00774
0775	0008	LBUNIT EQU LBUNIT(8)	STANDARD LIBRARY UNIT	00775
0776	0008	SCRATCH EQU SCRATCH(8)	STANDARD SCRATCH UNIT	00776
0777	0009	LSTOUT EQU LSTOUT(9)	STANDARD LIST OUTPUT	00777
0778	000A	STDIMP EQU STDIMP(10)	STANDARD INPUT	00778
0779	000B	BINOUT EQU BINOUT(11)	STANDARD BINARY OUTPUT	00779

0781		*		L I N E	O N E	T A B L E		00781
0782		*						00782
0784		*						00784
0785			ENT	LINIV4		LINE 1 INTERRUPT ENTRY		00785
0787	03E2	E805	LINIV4	LDQ*	LNITV4	PLACE THE PDT ADDRESS IN Q		00787
0788	03E3	C202		LDA-	2,Q			00788
0789	03E4	60FF		STA-	I			00789
0790	03E5	14FF		JMP-	(1)	<u>TRANSFER CONTROL TO THE DRIVER CONTINUATOR</u>		00790
0792			ENT	INVINT				00792
0794	03E6	14EA	INVINT	JMP-	(ADISP)			00794
0795			*					00795
0797	03E7		EQU	LNITV4(*)		START OF TABLE		00797
0798	03E7	0409	ADC	P1711		1711 TELETYPE, 713-10 CRT		00798
0799	03E8	FFFF	NUM	\$FFFF		END OF TABLE		00799
0801			*					00801
0802			*			D R I V E R	L I N K A G E	00802
0803			*					00803
0804			ENT	RELBYQ				00804
0806	7FFF		RELBYQ	EQU	RELBYQ(\$7FFF)	MMEEXEC		00806

interrupts

*only 1 device
on line 1*

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0808 *          P H Y S I C A L   D E V I C E   T A B L E S          00808
0809 *
0810 *
0811 *          T H E   F O L L O W I N G   S E C T I O N   C O N T A I N S   T H E   P H Y S I C A L   D E V I C E   T A B L E S
0812 *          A N D   I N T E R R U P T   R E S P O N S E   R O U T I N E S   F O R   E A C H   L O G I C A L   U N I T   I N
0813 *          T H E   S Y S T E M .
0814 *
0815 *          L I S T E D   B E L O W   A R E   T H E   M A N D A T O R Y   E N T R I E S   F O R   A L L   P H Y S I C A L
0816 *          D E V I C E   T A B L E S .   A D D I T I O N A L   E N T R I E S   R E Q U I R E D   B Y   E A C H
0817 *          D R I V E R   M A Y   B E   A D D E D   A F T E R   T H E   L A S T   E N T R Y   I N D I C A T E D .

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0819 03E9 PHYSTB EQU PHYSTB(*)          00819
0820 0000 EQU FLVL(0)          00  SCHEDULER CALL WITH DRIVER LEVEL          00820
0821 0001 EQU EDIN(1)          01  DRIVER INITIATOR ENTRY          00821
0822 0002 EQU EDCN(2)          02  DRIVER CONTINUATOR ENTRY          00822
0823 0003 EQU EDPCM(3)          03  DRIVER DIAGNOSTIC ENTRY          00823
0824 0004 EQU EDCLK(4)          04  DIAGNOSTIC CLOCK          00824
0825 0005 EQU ELU(5)          05  LOGICAL UNIT          00825
0826 0006 EQU EPTR(6)          06  PARAMETER LOCATION          00826
0827 0007 EQU EWES(7)          07  CONVERTOR, EQUIPMENT, STATION          00827
0828 0008 EQU EREQST(8)          08  REQUEST STATUS          00828
0829 0009 EQU ESTAT1(9)          09  DRIVER STATUS          00829
0830 000A EQU ECCOR(10)          10  CURRENT LOCATION          00830
0831 000B EQU ELSTWD(11)          11  LAST LOCATION PLUS ONE          00831
0832 000C EQU ESTAT2(12)          12  DEVICE STATUS          00832
0833 000D EQU MASLGN(13)          13  DRIVER LENGTH (IF MASS MEMORY)          00833
0834 000E EQU MASSEC(14)          14  NAME ASSOCIATED WITH SECTOR NUMBER          00834
0835 000F EQU RETURN(15)          15  RESERVED FOR FNR AND CMR          00835

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0837 *          L I N K   U N S E L E C T E D   P H Y S I C A L   D E V I C E   T A B L E S          00837
0839 ENT PIRECM          00839
0840 ENT P18PGA          00840
0841 ENT P18ADD          00841
0842 ENT P18MXP          00842
0843 7FFF P18ECM EQU P18ECM($7FFF)          00843
0844 7FFF P18PGA EQU P18PGA($7FFF)          00844
0845 7FFF P18ADD EQU P18ADD($7FFF)          00845
0846 7FFF P18MXP EQU P18MXP($7FFF)          00846

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		CORE ALLOCATOR				
0848		*				00848
0849		*				00849
0851			ENT	PCORE		00851
0852			EXT	ICORE,ECORE		00852
0853	0000		EQU	SWAPT(0)	SWAP TIME	00853
0855	03E9 5207	PCORE	ADC	\$5207	00 SCHEDULER CALL	00855
0856	03EA 7FFF X		ADC	ICORE	01 INITIATOR ADDRESS	00856
0857	03EB 0000		ADC	0	02 CONTINUATOR ADDRESS - NOT USED	00857
0858	03EC 7FFF X		ADC	ECORE	03 TIMEOUT ERROR ADDRESS	00858
0859	03ED FFFE		NUM	-1	04 DIAGNOSTIC CLOCK	00859
0860	03EE 0000		NUM	0	05 LOGICAL UNIT	00860
0861	03EF 0000		NUM	0	06 PARAMETER LOCATION	00861
0862	03F0 0000		NUM	0	07 CONVERTER, EQUIPMENT, STATION - NONE	00862
0863	03F1 0006		NUM	\$0006	08 REQUEST STATUS	00863
0864	03F2 0000		NUM	0	09 DRIVER STATUS	00864
0865	03F3 0000		NUM	0	10 CURRENT LOCATION	00865
0866	03F4 0000		NUM	0	11 LAST LOCATION PLUS ONE	00866
0867	03F5 0000		NUM	0	12 DEVICE STATUS	00867
0868	03F6 FFFE		VFD	X16/SWAPT-1	13 TIME BETWEEN SWAPS (NONE IF NEGATIVE)	00868
0869	03F7 7FFF		NUM	\$7FFF	14 RESERVED	00869
0870	03F8 0000		NUM	0	15 RESERVED FOR FNR AND CMR	00870

0872	*	D U M M Y L O G I C A L U N I T				00872		
0873	*					00873		
0875		EXT	IDUMMY,CDUMMY,EDUMMY			00875		
0877	03F9	520A	PDUMMY	ADC	\$520A	00	SCHEDULER CALL	00877
0878	03FA	7FFF	X	ADC	IDUMMY	01	INITIATOR ADDRESS	00878
0879	03FB	7FFF	X	ADC	CDUMMY	02	CONTINUATOR ADDRESS	00879
0880	03FC	7FFF	X	ADC	EDUMMY	03	TIMEOUT ERROR ADDRESS	00880
0881	03FD	FFFF		NUM	-1	04	DIAGNOSTIC CLOCK - NOT USED	00881
0882	03FE	0000		NUM	0	05	LOGICAL UNIT	00882
0883	03FF	0000		NUM	0	06	PARAMETER LOCATION	00883
0884	0400	0000		NUM	0	07	CONVERTER, EQUIPMENT, STATION - NONE	00884
0885	0401	01F6		NUM	\$01F6	08	REQUEST STATUS	00885
0886	0402	8000		NUM	\$8000	09	DRIVER STATUS	00886
0887	0403	0000		NUM	0	10	CURRENT LOCATION	00887
0888	0404	0000		NUM	0	11	LAST LOCATION PLUS ONE	00888
0889	0405	0000		NUM	0	12	DEVICE STATUS	00889
0890	0406	0000		NUM	0	13	RESERVED	00890
0891	0407	7FFF		NUM	\$7FFF	14	RESERVED	00891
0892	0408	0000		NUM	0	15	RESERVED FOR FNR AND CMR	00892

0894	*	1711	TELETYPE, 713-10 CRT	00894
0895	*			00895
0897		EXT	I1711,C1711,E1711	00897
0898	0040	EQU	T713(04*\$10) TYPE CODE - 713-10 CRT	00898
0899	0000	EQU	T1711(00*\$10) TYPE CODE - 1711 TELETYPE	00899
0900	0015	EQU	U1711(X1711-LOG1A)	00900
0902	0409 520D P1711	ADC	\$520D 00 SCHEDULER CALL	00902
0903	040A 7FFF X	ADC	I1711 01 INITIATOR ADDRESS	00903
0904	040B 7FFF X	ADC	C1711 02 CONTINUATOR ADDRESS	00904
0905	040C 7FFF X	ADC	E1711 03 TIMEOUT ERROR ADDRESS	00905
0906	040D FFFE	NUM	-1 04 DIAGNOSTIC CLOCK	00906
0907	040E 0000	NUM	0 05 LOGICAL UNIT	00907
0908	040F 0000	NUM	0 06 PARAMETER LOCATION	00908
0909	0410 0091	NUM	\$0091 07 CONVERTER, EQUIPMENT, STATION	00909
0910	0411 3006	ADC	\$3006+T1711 08 REQUEST STATUS	00910
0911	0412 0000	NUM	0 09 DRIVER STATUS	00911
0912	0413 0000	NUM	0 10 CURRENT LOCATION	00912
0913	0414 0000	NUM	0 11 LAST LOCATION PLUS ONE	00913
0914	0415 0000	NUM	0 12 DEVICE STATUS	00914
0915	0416 0000	NUM	0 13 ERROR CODE AND STARTING LOCATION	00915
0916	0417 7FFF	NUM	\$7FFF 14 RESERVED	00916
0917	0418 0000	NUM	0 15 RESERVED FOR FNR AND CMR	00917
0918	0419 0000	NUM	0 16 DRIVER FLAGS	00918
0919	041A 0001	NUM	1 17 HARDWARE PARITY CHECK FLAG	00919
0920	041B 0015	ADC	U1711 18 DIAGNOSTIC LU	00920

0922	*		C O S Y D R I V E R	00922
0923	*			00923
0925	0000	EQU	MCOSY1(0)	00925
0926	*			00926
0927		IFA	MCOSY1,EQ,0 CORE RESIDENT DRIVER	00927
0928		EXT	ICOSY	00928
0929	0000	EQU	LCOSY(0)	00929
0930	7FFF	EQU	SCOSY(\$7FFF)	00930
0931		EIF		00931
0932	*			00932
0933		IFA	MCOSY1,EQ,1 MASS RESIDENT DRIVER	00933
0934		EXT	MASDRV	00934
0935		EXT	LCOSY	00935
0936		EXT	SCOSY	00936
0937		EIF		00937
0938	*			00938

0040		*								00940
0041		*								00941
0043	041C 5208		PCOSY1	ADC	\$5208	00	SCHEDULER CALL			00943
0044	041D 7FFF X			ADC	ICOSY	01	INITIATOR ADDRESS			00944
0045	041E 0000			ADC	0	02	CONTINUATOR ADDRESS - NOT USED			00945
0046	041F 0000			ADC	0	03	TIMEOUT ERROR ADDRESS - NOT USED			00946
0047	0420 FFFE			NUM	-1	04	DIAGNOSTIC CLOCK			00947
0048	0421 0000			NUM	0	05	LOGICAL UNIT			00948
0049	0422 0000			NUM	0	06	PARAMETER LOCATION			00949
0050	0423 0000			NUM	0	07	CONVERTER, EQUIPMENT, STATION - NONE			00950
0051	0424 0886			NUM	\$0886	08	REQUEST STATUS			00951
0052	0425 0000			NUM	0	09	DRIVER STATUS			00952
0053	0426 0000			NUM	0	10	CURRENT LOCATION			00953
0054	0427 0000			NUM	0	11	LAST LOCATION PLUS ONE			00954
0055	0428 0000			NUM	0	12	DEVICE STATUS			00955
0056	0429 0000			ADC	LCOSY	13	DRIVER LENGTH IF MASS MEMORY			00956
0057	042A 7FFF			ADC	SCOSY	14	NAME ASSOCIATED WITH SECTOR NUMBER			00957
0058	042B 0000			NUM	0	15	RESERVED FOR FNR AND CMR			00958
0059	042C 04FD			ADC	PCOSY2	16	PHYSTB THREAD			00959
0060	042D 0000			NUM	0	17	SEQUENCE NUMBER			00960
0061	042E 0000			NUM	0	18	ID			00961
0062	042F 0000			NUM	0	19	ID-1			00962
0063	0430 0000			NUM	0	20	ID-2			00963
0064	0431 0000			NUM	0	21	NUMBER OF WORDS REQUESTED			00964
0065	0432 5555			NUM	\$5555	22	HOL-CHARACTER POINTER			00965
0066	0433 5555			NUM	\$5555	23	COSY-CHARACTER POINTER			00966
0067	0434 0000			NUM	0	24	R/W FLAG			00967
0068	0435 0001			NUM	1	25	PON5F			00968
0069	0436 0000			NUM	0	26	FSTCHR			00969
0070	0437 0000			NUM	0	27	ENDDCK			00970
0071	0438 043D			ADC	INPBFA	28	COSY BUFFER LOCATION			00971
0072	0439 043D			ADC	INPBFA	29	NEXT COSY WORD			00972
0073	043A 0000			NUM	0	30	HOL-BUFFER POINTER			00973
0074	043B 0001			NUM	1	31	INITIAL CALL FLAG			00974
0075	043C 0000			NUM	0	32	SEQUENCE FLAG NONZERO=NO SEQUENCE NUMBER			00975
0076		*								00976
0077	043D 00C0	*		BZS	INPBFA(192)	33	COSY BUFFER			00977
0078		*				224	COSY BUFFER			00978

		* COSY DRIVER, SECOND UNIT				
		*				
0980					00980	
0981					00981	
0983	04FD 5208	PCOSY2	ADC \$5208	00	SCHEDULER CALL	00983
0984	04FE 041D X		ADC ICOSY	01	INITIATOR ADDRESS	00984
0985	04FF 0000		ADC 0	02	CONTINUATOR ADDRESS - NOT USED	00985
0986	0500 0000		ADC 0	03	TIMEOUT ERROR ADDRESS - NOT USED	00986
0987	0501 FFFE		NUM -1	04	DIAGNOSTIC CLOCK	00987
0988	0502 0000		NUM 0	05	LOGICAL UNIT	00988
0989	0503 0000		NUM 0	06	PARAMETER LOCATION	00989
0990	0504 0000		NUM 0	07	CONVERTER, EQUIPMENT, STATION - NONE	00990
0991	0505 08B6		NUM \$08B6	08	REQUEST STATUS	00991
0992	0506 0000		NUM 0	09	DRIVER STATUS	00992
0993	0507 0000		NUM 0	10	CURRENT LOCATION	00993
0994	0508 0000		NUM 0	11	LAST LOCATION PLUS ONE	00994
0995	0509 0000		NUM 0	12	DEVICE STATUS	00995
0996	050A 0000		ADC LCOSY	13	DRIVER LENGTH IF MASS MEMORY	00996
0997	050B 7FFF		ADC SCOSY	14	NAME ASSOCIATED WITH SECTOR NUMBER	00997
0998	050C 0000		NUM 0	15	RESERVED FOR FNR AND CMR	00998
0999	050D 041C		ADC PCOSY1	16	PHYSTB THREAD	00999
1000	050E 0000		NUM 0	17	SEQUENCE NUMBER	01000
1001	050F 0000		NUM 0	18	ID	01001
1002	0510 0000		NUM 0	19	ID-1	01002
1003	0511 0000		NUM 0	20	ID-2	01003
1004	0512 0000		NUM 0	21	NUMBER OF WORDS REQUESTED	01004
1005	0513 5555		NUM \$5555	22	HOL-CHARACTER POINTER	01005
1006	0514 5555		NUM \$5555	23	COSY-CHARACTER POINTER	01006
1007	0515 0000		NUM 0	24	R/W FLAG	01007
1008	0516 0001		NUM 1	25	PON5F	01008
1009	0517 0000		NUM 0	26	FSTCHR	01009
1010	0518 0000		NUM 0	27	ENDDCK	01010
1011	0519 051E		ADC INPBFB	28	COSY BUFFER LOCATION	01011
1012	051A 051E		ADC INPBFB	29	NEXT COSY WORD	01012
1013	051B 0000		NUM 0	30	HOL-BUFFER POINTER	01013
1014	051C 0001		NUM 1	31	INITIAL CALL FLAG	01014
1015	051D 0000		NUM 0	32	SEQUENCE FLAG NONZERO=NO SEQUENCE NUMBER	01015
1016		*				01016
1017	051E 00C0		BZS INPBFB(192)	33	COSY BUFFER	01017
1018		*		224	COSY BUFFER	01018

1020		*		6 1 6 - 7 2 / 9 2 / 9 5	M A G T A P E	01020
1021		*				01021
1023	0350		EQU	T6167(53*\$10)	TYPE CODE - 616-72 MAG TAPE	01023
1024	0360		EQU	T6169(54*\$10)	TYPE CODE - 616-92-95 MAG TAPE	01024
1025	00C0		EQU	PHSREC(192)	MAX. PHYSICAL RECORD SIZE FOR 7 TRACK	01025
1027	05DE 0102		BF1F33 BZS	BF1F33(PHSREC*4/3+2)	PACK/UNPACK BUFFER (7 TRACK)	01027
1029	0000		EQU	M17323(0)		01029
1030		*				01030
1031			IFA	M17323,EQ,0	CORE RESIDENT DRIVER	01031
1032			EXT	I17323		01032
1033			EXT	C17323		01033
1034			EXT	E17323		01034
1035	0000		EQU	L17323(0)		01035
1036	7FFF		EQU	S17323(\$7FFF)		01036
1037			EIF			01037
1038		*				01038
1039			IFA	M17323,EQ,1	MASS RESIDENT DRIVER	01039
1040			EXT	MASDRV		01040
1041			EXT	MASCON		01041
1042			EXT	MASERR		01042
1043			EXT	S17323		01043
1044			EXT	L17323		01044
1045			EIF			01045
1046		*				01046
1048	06E0 E000		R17323 LDQ	=XP73230	INTERRUPT RESPONSE FOR 616-72-92-95 MAG TAPE	01048
1049	06E1 06E3					
1049	06E2 1C03		JMP*	(P73230+2)		01049

1051		*		6 1 6 - 7 2 / 9 2 / 9 5	M A G T A P E ,	U N I T	0	01051
1052		*						01052
1053	0017		EQU	U73230(X73230-LOG1A)				01053
1055	06E3	520A	P73230	ADC	\$520A	00	SCHEDULER CALL	01055
1056	06E4	7FFF	X	ADC	I17323	01	INITIATOR ADDRESS	01056
1057	06E5	7FFF	X	ADC	C17323	02	CONTINUATOR ADDRESS	01057
1058	06E6	7FFF	X	ADC	E17323	03	TIMEOUT ERROR ADDRESS	01058
1059	06E7	FFFE		NUM	-1	04	DIAGNOSTIC CLOCK	01059
1060	06E8	0000		NUM	0	05	LOGICAL UNIT	01060
1061	06E9	0000		NUM	0	06	PARAMETER LOCATION	01061
1062	06EA	0381		NUM	\$0381	07	CONVERTER, EQUIPMENT, STATION	01062
1063	06EB	0B66		ADC	\$0806+T6169	08	REQUEST STATUS	01063
1064	06EC	0000		NUM	0	09	DRIVER STATUS	01064
1065	06ED	0000		NUM	0	10	CURRENT LOCATION	01065
1066	06EE	0000		NUM	0	11	LAST LOCATION PLUS ONE	01066
1067	06EF	0000		NUM	0	12	DEVICE STATUS	01067
1068	06F0	0000		ADC	L17323	13	DRIVER LENGTH IF MASS MEMORY	01068
1069	06F1	7FFF		ADC	S17323	14	NAME ASSOCIATED WITH SECTOR NUMBER	01069
1070	06F2	0000		NUM	0	15	RESERVED FOR FNR AND CMR	01070
1071	06F3	0448		NUM	\$0448	16	REC. OPT., UNIT, FUNCTION, DENSITY CONTROL	01071
1072	06F4	0017		ADC	U73230	17	DIAGNOSTIC LU	01072
1073	06F5	0000		ADC	0	18	ERROR CODE	01073
1074	06F6	0000		NUM	0	19	RECOVERY RETURN ADDRESS	01074
1075	06F7	0000		NUM	0	20	RECORD CHECKSUM	01075
1076	06F8	D554		NUM	\$D554	21	FUNCTION DIRECTORY BITWORD	01076
1077	06F9	0000		NUM	0	22	TEMPORARY CHECKSUM	01077
1078	06FA	06FD		ADC	P73231	23	PHYSTB THREAD	01078
1079	06FB	00C0		ADC	PHSREC	24	MAX PHY RECORD SIZE (7 TRACK)	01079
1080	06FC	05DE		ADC	BF1F33	25	PACK/UNPACK BUFFER (7 TRACK)	01080

1082		*		6 1 6 - 7 2 / 9 2 / 9 5	M A G T A P E ,	U N I T 1	01082
1083		*					01083
1084	001B		EQU	U73231(X73231-LOG1A)			01084
1086	06FD 520A	P73231	ADC	\$520A	00	SCHEDULER CALL	01086
1087	06FE 06E4 X		ADC	I17323	01	INITIATOR ADDRESS	01087
1088	06FF 06E5 X		ADC	C17323	02	CONTINUATOR ADDRESS	01088
1089	0700 06E6 X		ADC	E17323	03	TIMEOUT ERROR ADDRESS	01089
1090	0701 FFFE		NUM	-1	04	DIAGNOSTIC CLOCK	01090
1091	0702 0000		NUM	0	05	LOGICAL UNIT	01091
1092	0703 0000		NUM	0	06	PARAMETER LOCATION	01092
1093	0704 0381		NUM	\$0381	07	CONVERTER, EQUIPMENT, STATION	01093
1094	0705 0B56		ADC	\$0P06+T6167	08	REQUEST STATUS	01094
1095	0706 0000		NUM	0	09	DRIVER STATUS	01095
1096	0707 0000		NUM	0	10	CURRENT LOCATION	01096
1097	0708 0000		NUM	0	11	LAST LOCATION PLUS ONE	01097
1098	0709 0000		NUM	0	12	DEVICE STATUS	01098
1099	070A 0000		ADC	L17323	13	DRIVER LENGTH IF MASS MEMORY	01099
1100	070B 7FFF		ADC	S17323	14	NAME ASSOCIATED WITH SECTOR NUMBER	01100
1101	070C 0000		NUM	0	15	RESERVED FOR FNR AND CMR	01101
1102	070D 04D0		NUM	\$04D0	16	REC. OPT., UNIT, FUNCTION, DENSITY CONTROL	01102
1103	070E 001B		ADC	U73231	17	DIAGNOSTIC LU	01103
1104	070F 0000		ADC	0	18	ERROR CODE	01104
1105	0710 0000		NUM	0	19	RECOVERY RETURN ADDRESS	01105
1106	0711 0000		NUM	0	20	RECORD CHECKSUM	01106
1107	0712 D554		NUM	\$D554	21	FUNCTION DIRECTORY BITWORD	01107
1108	0713 0000		NUM	0	22	TEMPORARY CHECKSUM	01108
1109	0714 06E3		ADC	P73230	23	PHYSTB THREAD	01109
1110	0715 00C0		ADC	PHSREC	24	MAX PHY RECORD SIZE (7 TRACK)	01110
1111	0716 05DE		ADC	BF1F33	25	PACK/UNPACK BUFFER (7 TRACK)	01111

1113	*	1 7 3 1 - 6 0 1	M A G T A P E	01113
1114	*			01114
1116	000E	EQU	E0601(14)	01116
1117	0701	EQU	E601(E0601*\$80+1)	01117
1119	0000	EQU	M1731U(0)	01119
1120	*			01120
1121		IFA	M1731U,EQ,0 CORE RESIDENT DRIVER	01121
1122		EXT	I1731U	01122
1123		EXT	C1731U	01123
1124		EXT	E1731U	01124
1125	0000	EQU	L1731U(0)	01125
1126	7FFF	EQU	S1731U(\$7FFF)	01126
1127		EIF		01127
1128	*			01128
1129		IFA	M1731U,EQ,1 MASS RESIDENT DRIVER	01129
1130		EXT	MASDRV	01130
1131		EXT	MASCON	01131
1132		EXT	MASERR	01132
1133		EXT	L1731U	01133
1134		EXT	S1731U	01134
1135		EIF		01135
1136	*			01136
1138	0717 E000	R1731U LDQ	=XP731U0 INTERRUPT RESPONSE FOR THE 601 MAG TAPE	01138
	0718 071A			
1139	0719 JC03	JMP*	(P731U0+2)	01139

1141		*		1 7 3 1 - 6 0 1	M A G T A P E ,	U N I T	0	01141
1142		*						01142
1143	0019		EQU	U731U0(X731U0-LOG1A)				01143
1145	071A	520E	P731U0	ADC	\$520E	00	SCHEDULER CALL	01145
1146	071B	7FFF	X	ADC	11731U	01	INITIATOR ADDRESS	01146
1147	071C	7FFF	X	ADC	C1731U	02	CONTINUATOR ADDRESS	01147
1148	071D	7FFF	X	ADC	E1731U	03	TIMEOUT ERROR ADDRESS	01148
1149	071E	FFFE		NUM	-1	04	DIAGNOSTIC CLOCK	01149
1150	071F	0000		NUM	0	05	LOGICAL UNIT	01150
1151	0720	0000		NUM	0	06	PARAMETER LOCATION	01151
1152	0721	0701		ADC	E601	07	CONVERTER, EQUIPMENT, STATION	01152
1153	0722	0R96		NUM	\$0R96	08	REQUEST STATUS	01153
1154	0723	0000		NUM	0	09	DRIVER STATUS	01154
1155	0724	0000		NUM	0	10	CURRENT LOCATION	01155
1156	0725	0000		NUM	0	11	LAST LOCATION PLUS ONE	01156
1157	0726	0000		NUM	0	12	DEVICE STATUS	01157
1158	0727	0000		ADC	L1731U	13	DRIVER LENGTH IF MASS MEMORY	01158
1159	0728	7FFF		ADC	S1731U	14	NAME ASSOCIATED WITH SECTOR NUMBER	01159
1160	0729	0000		NUM	0	15	RESERVED FOR FNR AND CMR	01160
1161	072A	0414		NUM	\$0414	16	FUNCTION AND UNIT CONTROL	01161
1162	072B	0019		ADC	U731U0	17	DIAGNOSTIC LU	01162
1163	072C	0000		NUM	0	18	ERROR CODE	01163
1164	072D	0000		NUM	0	19	RECOVERY RETURN ADDRESS	01164
1165	072E	0000		NUM	0	20	RECORD CHECKSUM	01165
1166	072F	DCDC		NUM	\$DCDC	21	FUNCTION DIRECTORY BITWORD	01166
1167	0730	0000		NUM	0	22	TEMPORARY CHECKSUM	01167
1168	0731	0000		NUM	0	23	READ/WRITE PROCESSOR RETURN ADDRESS	01168
1169	0732	0734		ADC	P731U1	24	PHYSTB THREAD	01169
1170	0733	0000		NUM	0	25	END-OF-TAPE FLAG	01170

1172		*		1 7 3 1 - 6 0 1	M A G	T A P E ,	U N I T	1	01172
1173		*							01173
1174	00JA		EOU	U731U1(X731U1-LOG1A)					01174
1176	0734	520E	P731U1	ADC	\$520E	00	SCHEDULER CALL		01176
1177	0735	071B	X	ADC	I1731U	01	INITIATOR ADDRESS		01177
1178	0736	071C	X	ADC	C1731U	02	CONTINUATOR ADDRESS		01178
1179	0737	071D	X	ADC	E1731U	03	TIMEOUT ERROR ADDRESS		01179
1180	0738	FFFE		NUM	-1	04	DIAGNOSTIC CLOCK		01180
1181	0739	0000		NUM	0	05	LOGICAL UNIT		01181
1182	073A	0000		NUM	0	06	PARAMETER LOCATION		01182
1183	073B	0701		ADC	E601	07	CONVERTER, EQUIPMENT, STATION		01183
1184	073C	0896		NUM	\$0896	08	REQUEST STATUS		01184
1185	073D	0000		NUM	0	09	DRIVER STATUS		01185
1186	073E	0000		NUM	0	10	CURRENT LOCATION		01186
1187	073F	0000		NUM	0	11	LAST LOCATION PLUS ONE		01187
1188	0740	0000		NUM	0	12	DEVICE STATUS		01188
1189	0741	0000		ADC	L1731U	13	DRIVER LENGTH IF MASS MEMORY		01189
1190	0742	7FFF		ADC	S1731U	14	NAME ASSOCIATED WITH SECTOR NUMBER		01190
1191	0743	0000		NUM	0	15	RESERVED FOR FNR AND CMR		01191
1192	0744	0494		NUM	\$0494	16	FUNCTION AND UNIT CONTROL		01192
1193	0745	001A		ADC	U731U1	17	DIAGNOSTIC LU		01193
1194	0746	0000		NUM	0	18	ERROR CODE		01194
1195	0747	0000		NUM	0	19	RECOVERY RETURN ADDRESS		01195
1196	0748	0000		NUM	0	20	RECORD CHECKSUM		01196
1197	0749	0C0C		NUM	\$0C0C	21	FUNCTION DIRECTORY BITWORD		01197
1198	074A	0000		NUM	0	22	TEMPORARY CHECKSUM		01198
1199	074B	0000		NUM	0	23	READ/WRITE PROCESSOR RETURN ADDRESS		01199
1200	074C	071A		ADC	P731U0	24	PHYSTB THREAD		01200
1201	074D	0000		NUM	0	25	END-OF-TAPE FLAG		01201

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1203	*				01203
1204	*				01204
			M A G N E T I C T A P E S I M U L A T O R		
1206	0000	EQU	MTSIMO(0)		01206
1207	*				01207
1208		IFA	MTSIMO,EQ,0	CORE RESIDENT DRIVER	01208
1209		EXT	IMTSIM		01209
1210	0000	EQU	LMTSIM(0)		01210
1211	7FFF	EQU	SMTSIM(\$7FFF)		01211
1212		EIF			01212
1213	*				01213
1214		IFA	MTSIMO,EQ,1	MASS RESIDENT DRIVER	01214
1215		EXT	MASDRV		01215
1216		EXT	LMTSIM		01216
1217		EXT	SMTSIM		01217
1218		EIF			01218
1219	*				01219

		MAG TAPE SIMULATOR, UNIT 0				
1221	*				01221	
1222	*				01222	
1224		EXT	MTBFS0		01224	
1225		EXT	MTBFEO		01225	
1227	074E 5208	PTSIMO	ADC \$5208	00	SCHEDULER CALL	01227
1228	074F 7FFF X		ADC IMTSIM	01	INITIATOR ADDRESS	01228
1229	0750 0000		ADC 0	02	CONTINUATOR ADDRESS - NOT USED	01229
1230	0751 0000		ADC 0	03	TIMEOUT ERROR ADDRESS - NOT USED	01230
1231	0752 FFFE		NUM -1	04	DIAGNOSTIC CLOCK - NOT USED	01231
1232	0753 0000		NUM 0	05	LOGICAL UNIT	01232
1233	0754 0000		NUM 0	06	PARAMETER LOCATION	01233
1234	0755 0000		NUM 0	07	CONVERTER, EQUIPMENT, STATION - NONE	01234
1235	0756 0BC6		NUM \$0BC6	08	REQUEST STATUS	01235
1236	0757 0000		NUM 0	09	DRIVER STATUS	01236
1237	0758 0000		NUM 0	10	CURRENT LOCATION	01237
1238	0759 0000		NUM 0	11	LAST LOCATION PLUS ONE	01238
1239	075A 8000		NUM \$8000	12	DEVICE STATUS (WRITE RING ON)	01239
1240	075B 0000		ADC LMTSIM	13	DRIVER LENGTH IF MASS MEMORY	01240
1241	075C 7FFF		ADC SMTSIM	14	NAME ASSOCIATED WITH SECTOR NUMBER	01241
1242	075D 0000		NUM 0	15	RESERVED FOR FNR AND CMR	01242
1243	075E 0008		NUM 8	16	MASS MEMORY LOGICAL UNIT	01243
1244	075F 0000		NUM 0	17	MM WORD ADDRESS POINTER (MSB)	01244
1245	0760 0000		NUM 0	18	MM WORD ADDRESS POINTER (LSB)	01245
1246	0761 0000		NUM 0	19	MASS MEMORY ADDRESS -	01246
1247	0762 7FFF X		ADC MTBFS0	20	START OF MASS MEMORY BUFFER	01247
1248	0763 0000		NUM 0	21	MASS MEMORY ADDRESS -	01248
1249	0764 7FFF X		ADC MTBFEO	22	END OF MASS MEMORY BUFFER	01249
1250	0765 0766		ADC PTSIM1	23	PHYSTB THREAD	01250

		MAG TAPE SIMULATOR, UNIT 1			
1252	*			01252	
1253	*			01253	
1255		EXT	MTBFS1	01255	
1256		EXT	MTBFE1	01256	
1258	0766 5208	PTSIM1	ADC \$5208	00 SCHEDULER CALL	01258
1259	0767 074F X		ADC IMTSIM	01 INITIATOR ADDRESS	01259
1260	0768 0000		ADC 0	02 CONTINUATOR ADDRESS - NOT USED	01260
1261	0769 0000		ADC 0	03 TIMEOUT ERROR ADDRESS - NOT USED	01261
1262	076A FFFE		NUM -1	04 DIAGNOSTIC CLOCK - NOT USED	01262
1263	076B 0000		NUM 0	05 LOGICAL UNIT	01263
1264	076C 0000		NUM 0	06 PARAMETER LOCATION	01264
1265	076D 0000		NUM 0	07 CONVERTER, EQUIPMENT, STATION - NONE	01265
1266	076E 0BC6		NUM \$0BC6	08 REQUEST STATUS	01266
1267	076F 0000		NUM 0	09 DRIVER STATUS	01267
1268	0770 0000		NUM 0	10 CURRENT LOCATION	01268
1269	0771 0000		NUM 0	11 LAST LOCATION PLUS ONE	01269
1270	0772 8000		NUM \$8000	12 DEVICE STATUS (WRITE RING ON)	01270
1271	0773 0000		ADC LMTSIM	13 DRIVER LENGTH IF MASS MEMORY	01271
1272	0774 7FFF		ADC SMTSIM	14 NAME ASSOCIATED WITH SECTOR NUMBER	01272
1273	0775 0000		NUM 0	15 RESERVED FOR FNR AND CMR	01273
1274	0776 0008		NUM 8	16 MASS MEMORY LOGICAL UNIT	01274
1275	0777 0000		NUM 0	17 MM WORD ADDRESS POINTER (MSB)	01275
1276	0778 0000		NUM 0	18 MM WORD ADDRESS POINTER (LSB)	01276
1277	0779 0000		NUM 0	19 MASS MEMORY ADDRESS -	01277
1278	077A 7FFF X		ADC MTBFS1	20 START OF MASS MEMORY BUFFER	01278
1279	077B 0000		NUM 0	21 MASS MEMORY ADDRESS -	01279
1280	077C 7FFF X		ADC MTBFE1	22 END OF MASS MEMORY BUFFER	01280
1281	077D 077E		ADC PTSIM2	23 PHYSTB THREAD	01281

1283	*					MAG TAPE SIMULATOR, UNIT 2	01283	
1284	*						01284	
1286			EXT	MTBFS2			01286	
1287			EXT	MTRFE2			01287	
1289	077E	5208	PTSIM2	ADC	\$5208	00	SCHEDULER CALL	01289
1290	077F	0767	X	ADC	IMTSIM	01	INITIATOR ADDRESS	01290
1291	0780	0000		ADC	0	02	CONTINUATOR ADDRESS - NOT USED	01291
1292	0781	0000		ADC	0	03	TIMEOUT ERROR ADDRESS - NOT USED	01292
1293	0782	FFFE		NUM	-1	04	DIAGNOSTIC CLOCK - NOT USED	01293
1294	0783	0000		NUM	0	05	LOGICAL UNIT	01294
1295	0784	0000		NUM	0	06	PARAMETER LOCATION	01295
1296	0785	0000		NUM	0	07	CONVERTER, EQUIPMENT, STATION - NONE	01296
1297	0786	08C6		NUM	\$08C6	08	REQUEST STATUS	01297
1298	0787	0000		NUM	0	09	DRIVER STATUS	01298
1299	0788	0000		NUM	0	10	CURRENT LOCATION	01299
1300	0789	0000		NUM	0	11	LAST LOCATION PLUS ONE	01300
1301	078A	8000		NUM	\$8000	12	DEVICE STATUS (WRITE RING ON)	01301
1302	078B	0000		ADC	LMTSIM	13	DRIVER LENGTH IF MASS MEMORY	01302
1303	078C	7FFF		ADC	SMTSIM	14	NAME ASSOCIATED WITH SECTOR NUMBER	01303
1304	078D	0000		NUM	0	15	RESERVED FOR FNR AND CMR	01304
1305	078E	0008		NUM	8	16	MASS MEMORY LOGICAL UNIT	01305
1306	078F	0000		NUM	0	17	MM WORD ADDRESS POINTER (MSB)	01306
1307	0790	0000		NUM	0	18	MM WORD ADDRESS POINTER (LSB)	01307
1308	0791	0000		NUM	0	19	MASS MEMORY ADDRESS -	01308
1309	0792	7FFF	X	ADC	MTBFS2	20	START OF MASS MEMORY BUFFER	01309
1310	0793	0000		NUM	0	21	MASS MEMORY ADDRESS -	01310
1311	0794	7FFF	X	ADC	MTRFE2	22	END OF MASS MEMORY BUFFER	01311
1312	0795	074E		ADC	PTSIM0	23	PHYSTB THREAD	01312

1314		*	1 7 3 3 - 2 / 8 5 6	D I S K	01314	
1315		*			01315	
1317			ENT	P332D0	01317	
1318			EXT	117332,C17332,E17332	01318	
1319	00F0		EQU	T8562(15*\$10) TYPE CODE - 1733-2 856-2	01319	
1320	0100		EQU	T8564(16*\$10) TYPE CODE - 1733-2 856-4	01320	
1322	0796 E000	R17332	LDQ	=XP73320	INTERRUPT RESPONSE FOR 1733-2 DISK	01322
	0797 0799					
1323	0798 1C03		JMP*	(P73320+2)		01323

1325	*	1 7 3 3 - 2 / 8 5 6	D I S K - U N I T	0	01325
1326	*				01326
1328	0799	EQU	P332D0(*)		01328
1329	0799 5209	P73320 ADC	\$5209	00	01329
1330	079A 7FFF X	ADC	I17332	01	01330
1331	079B 7FFF X	ADC	C17332	02	01331
1332	079C 7FFF X	ADC	E17332	03	01332
1333	079D FFFE	NUM	-1	04	01333
1334	079E 0000	NUM	0	05	01334
1335	079F 0000	NUM	0	06	01335
1336	07A0 0181	NUM	\$0181	07	01336
1337	07A1 1106	ADC	\$1006+T8564	08	01337
1338	07A2 0200	NUM	\$0200	09	01338
1339	07A3 0000	NUM	0	10	01339
1340	07A4 0000	NUM	0	11	01340
1341	07A5 0000	NUM	0	12	01341
1342	07A6 0000	NUM	0	13	01342
1343	07A7 0000	NUM	0	14	01343
1344	07A8 0000	NUM	0	15	01344
1345	07A9 8100	NUM	\$8100	16	01345
1346	07AA 0000	NUM	0	17	01346
1347	07AB 0000	NUM	0	18	01347
1348	07AC 0000	NUM	0	19	01348
1349	07AD 0000	NUM	0	20	01349
1350	07AE 0000	NUM	0	21	01350
1351	07AF 0825	ADC	P73321	22	01351
1352	07B0 0000	NUM	0	23	01352
1353	07B1 5BFB	NUM	\$5BFB	24	01353
1354	07B2 0000	NUM	0	25	01354
1355	07B3 0000	NUM	0	26	01355
1356	07B4 0000	NUM	0	27	01356
1357	07B5 0001	NUM	1	28	01357
1358	07B6 07C5	ADC	BF332A	29	01358
1359	07B7 0000	NUM	0	30	01359
1360	07B8 0000	NUM	0	31	01360
1361	07B9 0000	NUM	0	32	01361
1362	07BA 0000	NUM	0	33	01362
1363	07BB 0000	NUM	0	34	01363
1364	07BC 0000	NUM	0	35	01364
1365	07BD 0000	NUM	0	36	01365
1366	07BE 0000	NUM	0	37	01366
1367	07BF 0000	NUM	0	38	01367
1368	07C0 FFFF	NUM	\$FFFF	39	01368
1369	07C1 0000	NUM	0	40	01369
1370	07C2 0000	NUM	0	41	01370
1371	07C3 0000	NUM	0	42	01371
1372	07C4 0000	NUM	0	43	01372
1373	*				01373
1374	07C5 0060	BZS	BF332A(96)	44	01374
1375	*			139	01375

1377	*	1 7 3 3 - 2 / 8 5 6	D I S K - U N I T	1	01377	
1378	*				01378	
1380	0825 5209	P73321	ADC \$5209	00	SCHEDULER CALL	01380
1381	0826 079A X		ADC I17332	01	INITIATOR ADDRESS	01381
1382	0827 079B X		ADC C17332	02	CONTINUATOR ADDRESS	01382
1383	0828 079C X		ADC E17332	03	TIMEOUT ERROR ADDRESS	01383
1384	0829 FFFE		NUM -1	04	DIAGNOSTIC CLOCK	01384
1385	082A 0000		NUM 0	05	LOGICAL UNIT	01385
1386	082B 0000		NUM 0	06	PARAMETER LOCATION	01386
1387	082C 0181		NUM \$0181	07	CONVERTER, EQUIPMENT, STATION	01387
1388	082D 10F6		ADC \$1006+T8562	08	REQUEST STATUS	01388
1389	082E 0200		NUM \$0200	09	DRIVER STATUS	01389
1390	082F 0000		NUM 0	10	CURRENT LOCATION	01390
1391	0830 0000		NUM 0	11	LAST LOCATION PLUS ONE	01391
1392	0831 0000		NUM 0	12	DEVICE STATUS	01392
1393	0832 0000		NUM 0	13	ERROR COUNTER	01393
1394	0833 0000		NUM 0	14	DATA TRANSFER FUNCTION	01394
1395	0834 0000		NUM 0	15	SECTOR NUMBER OR FNR RETURN	01395
1396	0835 8300		NUM \$8300	16	NO COMPARE FLAG / DIRECTOR FUNCTION	01396
1397	0836 0000		NUM 0	17	TEMSEC - USED BY WORD ADDRESSING	01397
1398	0837 0000		NUM 0	18	OVERLAY AREA (SCHEDULER CALL)	01398
1399	0838 0000		NUM 0	19	OVERLAY AREA (COMPLETION ADDRESS)	01399
1400	0839 0000		NUM 0	20	OVERLAY AREA (THREAD)	01400
1401	083A 0000		NUM 0	21	OVERLAY AREA (LOGICAL UNIT)	01401
1402	083B 0799		ADC P73320	22	PHYSTB THREAD	01402
1403	083C 0000		NUM 0	23	RETURN ADDRESS FOR DATA TRANSFER	01403
1404	083D 2DFD		NUM \$2DFD	24	FIRST SECTOR ADDRESS ON DISK 1	01404
1405	083E 0000		NUM 0	25	LAST DATA TRANSFER FUNCTION	01405
1406	083F 0000		NUM 0	26	BUFFER SIZE FOR SPLIT TRANSFERS	01406
1407	0840 0000		NUM 0	27	CYLINDER ADDRESS FOR TRANSFER	01407
1408	0841 0002		NUM 2	28	MASK FOR THIS UNITS SEEK COMPLETE BIT	01408
1409	0842 0851		ADC BF332B	29	ADDRESS OF 96 WORD BUFFER	01409
1410	0843 0000		NUM 0	30	TEMPORARY FOR WORD ADDRESSING	01410
1411	0844 0000		NUM 0	31	TEMPORARY FOR WORD ADDRESSING	01411
1412	0845 0000		NUM 0	32	TEMPORARY FOR WORD ADDRESSING	01412
1413	0846 0000		NUM 0	33	REQUEST CODE	01413
1414	0847 0000		NUM 0	34	REQUEST PRIORITY	01414
1415	0848 0000		NUM 0	35	STARTING SECTOR FOR COMPARE OR RETRY	01415
1416	0849 0000		NUM 0	36	FWA OF TRANSFER FOR COMPARE OR RETRY	01416
1417	084A 0000		NUM 0	37	ERROR COUNTER	01417
1418	084B 0000		NUM 0	38	DATA TRANSFER FUNCTION CODE	01418
1419	084C FFFF		NUM \$FFFF	39	SECTOR NUMBER CURRENTLY IN BUFFER	01419
1420	084D 0000		NUM 0	40	LAST VALUE OF CYLINDER ADDRESS STATUS	01420
1421	084E 0000		NUM 0	41	LAST VALUE OF C W A STATUS	01421
1422	084F 0000		NUM 0	42	LAST VALUE OF CHECKWORD STATUS	01422
1423	0850 0000		NUM 0	43	LAST VALUE OF DRIVE CYLINDER STATUS	01423
1424	*					01424
1425	0851 0060		BZS BF332B(96)	44	BUFFER FOR WORD ADDRESSING	01425
1426	*			139	BUFFER FOR WORD ADDRESSING	01426

1428		*		1 7 4 2 - 3 0 / 1 2 0	LINE PRINTER	01428
1429		*				01429
1431	0110		EQU	T4230(17*\$10)	TYPE CODE - 1742-30	01431
1432	0120		EQU	T4212(18*\$10)	TYPE CODE - 1742-120	01432
1433	0018		EQU	U42312(X42312-LOG1A)		01433
1434	000C		EQU	F42312(FTN742-LOG1A)		01434
1436	0000		EQU	M42312(0)		01436
1437		*				01437
1438			IFA	M42312,EQ,0	CORE RESIDENT DRIVER	01438
1439			EXT	I42312		01439
1440			EXT	C42312		01440
1441			EXT	E42312		01441
1442	0000		EQU	L42312(0)		01442
1443	7FFF		EQU	S42312(\$7FFF)		01443
1444			EIF			01444
1445		*				01445
1446			IFA	M42312,EQ,1	MASS RESIDENT DRIVER	01446
1447			EXT	MASDRV		01447
1448			EXT	MASCON		01448
1449			EXT	MASERR		01449
1450			EXT	L42312		01450
1451			EXT	S42312		01451
1452			EIF			01452
1453		*				01453
1455	08B1 E000		R42312 LDQ	=XP42312	INTERRUPT RESPONSE FOR 1742-30/120 PRINTER	01455
	08B2 08B4					
1456	08B3 1C03		JMP*	(P42312+2)		01456

1458	*					1 7 4 2 - 3 0 / 1 2 0	L I N E	P R I N T E R	01458
1459	*								01459
1461		08B4	520A	P42312	ADC	\$520A	00	SCHEDULER CALL	01461
1462		08B5	7FFF	X	ADC	I42312	01	INITIATOR ADDRESS	01462
1463		08B6	7FFF	X	ADC	C42312	02	CONTINUATOR ADDRESS	01463
1464		08B7	7FFF	X	ADC	E42312	03	TIMEOUT ERROR ADDRESS	01464
1465		08B8	FFFE		NUM	-1	04	DIAGNOSTIC CLOCK	01465
1466		08B9	0000		NUM	0	05	LOGICAL UNIT	01466
1467		08BA	0000		NUM	0	06	PARAMETER LOCATION	01467
1468		08BB	0201		NUM	\$0201	07	CONVERTER, EQUIPMENT, STATION	01468
1469		08BC	2924		ADC	\$2R04+T4212	08	REQUEST STATUS	01469
1470		08BD	0000		NUM	0	09	DRIVER STATUS	01470
1471		08BE	0000		NUM	0	10	CURRENT LOCATION	01471
1472		08BF	0000		NUM	0	11	LAST LOCATION PLUS ONE	01472
1473		08C0	0000		NUM	0	12	DEVICE STATUS	01473
1474		08C1	0000		ADC	L42312	13	DRIVER LENGTH IF MASS MEMORY	01474
1475		08C2	7FFF		ADC	S42312	14	NAME ASSOCIATED WITH SECTOR NUMBER	01475
1476		08C3	0000		NUM	0	15	BLANK DETECTION INDICATOR	01476
1477		08C4	0000		NUM	0	16	LINE COUNT	01477
1478		08C5	0000		NUM	0	17	TEMPORARY STORAGE FOR CONTROL FUNC.	01478
1479		08C6	0000		NUM	0	18	CHARACTER COUNT	01479
1480		08C7	000C		ADC	F42312	19	FORTRAN LOGICAL UNIT	01480
1481		08C8	0000		NUM	0	20	NUMBER OF BLANKS TO BE SENT	01481
1482		08C9	003C		NUM	60	21	MAXIMUM NUMBER OF LINES PER PAGE	01482
1483		08CA	0084		NUM	132	22	NUMBER OF CHARACTERS PER LINE	01483
1484		08CB	0018		ADC	U42312	23	DIAGNOSTIC LU	01484

1486	*								01486
1487	*					F O R T R A N	L I N E	P R I N T E R	01487
1489	*					P H Y S T B	S H A R E D	W I T H	1 7 4 2 - 3 0 / 1 2 0
						L I N E	P R I N T E R		01489

1491		*		1 7 2 9 - 3	C A R D	R E A D E R	01491
1492		*					01492
1494	0016		EQU	U17293(X17293-LOG1A)			01494
1496	0000		EQU	M17293(0)			01496
1497		*					01497
1498			IFA	M17293,EQ,0	CORE	RESIDENT DRIVER	01498
1499			EXT	I17293			01499
1500			EXT	C17293			01500
1501			EXT	E17293			01501
1502	0000		EQU	L17293(0)			01502
1503	7FFF		EQU	S17293(\$7FFF)			01503
1504			EIF				01504
1505		*					01505
1506			IFA	M17293,EQ,1	MASS	RESIDENT DRIVER	01506
1507			EXT	MASDRV			01507
1508			EXT	MASCOM			01508
1509			EXT	MASERR			01509
1510			EXT	L17293			01510
1511			EXT	S17293			01511
1512			EIF				01512
1513		*					01513
1515	08CC E000 08CD 08CF		R17293 LDQ	=XP17293	INTERRUPT	RESPONSE FOR 1729-3 CARD READER	01515
1516	08CE 1C03		JMP*	(P17293+2)			01516

1518	*		1 7 2 9 - 3	C A R D	R E A D E R	01518		
1519	*					01519		
1521	ORCF	520E	P17293	ADC	\$520E	00	SCHEDULER CALL	01521
1522	ORP0	7FFF	X	ADC	I17293	01	INITIATOR ADDRESS	01522
1523	ORP1	7FFF	X	ADC	C17293	02	CONTINUATOR ADDRESS	01523
1524	ORP2	7FFF	X	ADC	E17293	03	TIMEOUT ERROR ADDRESS	01524
1525	ORP3	FFFE		NUM	-1	04	DIAGNOSTIC CLOCK	01525
1526	ORP4	0000		NUM	0	05	LOGICAL UNIT	01526
1527	ORP5	0000		NUM	0	06	PARAMETER LOCATION	01527
1528	ORP6	05A1		NUM	\$05A1	07	CONVERTER, EQUIPMENT, STATION	01528
1529	ORP7	1A62		NUM	\$1A62	08	REQUEST STATUS	01529
1530	ORP8	0000		NUM	0	09	DRIVER STATUS	01530
1531	ORP9	0000		NUM	0	10	CURRENT LOCATION	01531
1532	ORPA	0000		NUM	0	11	LAST LOCATION PLUS ONE	01532
1533	ORPB	0000		NUM	0	12	DEVICE STATUS	01533
1534	ORPC	0000		ADC	L17293	13	DRIVER LENGTH IF MASS MEMORY	01534
1535	ORPD	7FFF		ADC	S17293	14	NAME ASSOCIATED WITH SECTOR NUMBER	01535
1536	ORPE	0000		NUM	0	15	PACKING CYCLE ADDRESS STORAGE	01536
1537	ORPF	000F		NUM	\$000F	16	E O F FORMAT (6789)	01537
1538	ORE0	08EB		ADC	BFR293	17	FIRST LOCATION OF 80 WORD INPUT BUFFER	01538
1539	ORE1	0000		NUM	0	18	CURRENT CARD BUFFER LOCATION	01539
1540	ORE2	0000		NUM	0	19	SUBROUTINE RETURN ADDRESS	01540
1541	ORE3	0000		NUM	0	20	CARD SEQUENCE NUMBER	01541
1542	ORE4	0000		NUM	0	21	RECORD LENGTH	01542
1543	ORE5	0000		NUM	0	22	CHECKSUM ACCUMULATOR	01543
1544	ORE6	0000		NUM	0	23	TEMPORARY STORAGE	01544
1545	ORE7	0000		NUM	0	24	OUTPUT OFFSET SWITCH	01545
1546	ORE8	0000		NUM	0	25	TEMPORARY STORAGE	01546
1547	ORE9	0000		NUM	0	26	HOLLERITH ERROR FLAG	01547
1548	OREA	0016		ADC	U17293	27	DIAGNOSTIC LOGICAL UNIT	01548
1549			*					01549
1550	OREB	0050		BZS	BFR293(R0)	28	INPUT BUFFER	01550
1551			*			107	INPUT BUFFER	01551

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1553      *      R E S I D E N T   C O R E   D A T A      01553
1554      *
1555      EMT LSTLOC      01555
1556      EXT BGNMON      01556

1558 093B 7FFF X LSTLOC ADC BGNMON      BEGINNING LOCATION OF CORE RESIDENT SYSTEM      01558

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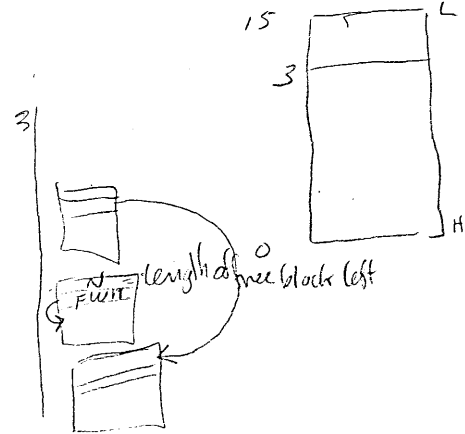
1560      *      C O R E   A L L O C A T I O N   D A T A      01560
1561      *
1562      EMT CALTHD      CORE ALLOCATOR THREAD      01562
1563      EMT LVLSTR      LEVEL START ALLOCATION TABLE      01563
1564      EXT AREAC      START OF ALLOCATABLE AREA      01564
1565      EXT LEND      END OF ALLOCATABLE AREA      01565
1566      *
1567 093C 0000 CALTHD ADC 0      TOTAL AVAILABLE ALLOCATABLE CORE      01566
1568 093D 7FFF X ADC AREAC      START OF ALLOCATABLE AREA      01568
1569      *
1570 093E 093D X LVLSTR ADC AREAC      START OF ALLOCATABLE CORE FOR LEVEL 0      01570
1571 093F 093E X ADC AREAC      START OF ALLOCATABLE CORE FOR LEVEL 1      01571
1572 0940 093F X ADC AREAC      START OF ALLOCATABLE CORE FOR LEVEL 2      01572
1573 0941 0940 X ADC AREAC      START OF ALLOCATABLE CORE FOR LEVEL 3      01573
1574 0942 0941 X ADC AREAC      START OF ALLOCATABLE CORE FOR LEVEL 4      01574
1575 0943 0942 X ADC AREAC      START OF ALLOCATABLE CORE FOR LEVEL 5      01575
1576 0944 0943 X ADC AREAC      START OF ALLOCATABLE CORE FOR LEVEL 6      01576
1577 0945 0944 X ADC AREAC      START OF ALLOCATABLE CORE FOR LEVEL 7      01577
1578 0946 0945 X ADC AREAC      START OF ALLOCATABLE CORE FOR LEVEL 8      01578
1579 0947 0946 X ADC AREAC      START OF ALLOCATABLE CORE FOR LEVEL 9      01579
1580 0948 0947 X ADC AREAC      START OF ALLOCATABLE CORE FOR LEVEL 10      01580
1581 0949 0948 X ADC AREAC      START OF ALLOCATABLE CORE FOR LEVEL 11      01581
1582 094A 0949 X ADC AREAC      START OF ALLOCATABLE CORE FOR LEVEL 12      01582
1583 094B 094A X ADC AREAC      START OF ALLOCATABLE CORE FOR LEVEL 13      01583
1584 094C 094B X ADC AREAC      START OF ALLOCATABLE CORE FOR LEVEL 14      01584
1585 094D 094C X ADC AREAC      START OF ALLOCATABLE CORE FOR LEVEL 15      01585
1586 094E 7FFF X ADC LEND      END OF ALLOCATABLE CORE      01586
1587      *
1588      EMT N5,N6,N7,N8,N9,N10,N11,N12,N13,N14,N15      01588

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1590      *      N O T E   -   T H E   S I Z E   O F   A R E A S   1 ,   2 ,   3 ,   A N D   4   A R E   S P E C I F I E D      01590
1591      *      D U R I N G   S Y S T E M   I N I T I A L I Z A T I O N      01591
1592      *
1593 0000 N5 EQU N5( )      NUMBER OF CORE LOCATIONS FOR AREA 5      01593
1594 0000 N6 EQU N6( )      NUMBER OF CORE LOCATIONS FOR AREA 6      01594
1595 0000 N7 EQU N7( )      NUMBER OF CORE LOCATIONS FOR AREA 7      01595
1596 0000 N8 EQU N8( )      NUMBER OF CORE LOCATIONS FOR AREA 8      01596
1597 0000 N9 EQU N9( )      NUMBER OF CORE LOCATIONS FOR AREA 9      01597
1598 0000 N10 EQU N10( )      NUMBER OF CORE LOCATIONS FOR AREA 10      01598
1599 0000 N11 EQU N11( )      NUMBER OF CORE LOCATIONS FOR AREA 11      01599
1600 0000 N12 EQU N12( )      NUMBER OF CORE LOCATIONS FOR AREA 12      01600
1601 0000 N13 EQU N13( )      NUMBER OF CORE LOCATIONS FOR AREA 13      01601
1602 0000 N14 EQU N14( )      NUMBER OF CORE LOCATIONS FOR AREA 14      01602
1603 0000 N15 EQU N15( )      NUMBER OF CORE LOCATIONS FOR AREA 15      01603

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← address contains start of allocatable request + priority = area you want to run in

start of allocatable = addr. of 1st free block.

1605	*	PARTITION CORE DATA			01605
1606	*				01606
1607	*	THESE ENTRIES ALLOW PROPER SYSTEM LINKAGE IF PARTITIONED			01607
1608	*	CORE IS NOT SELECTED.			01608
1610		ENT	THDS,USE		01610
1611		ENT	PARTBL,LSTPRT,BUSY		01611
1612	094F 8000	PARTBL	NUM \$8000	FWA OF PARTITION 0	01612
1613	0950 8080		NUM \$8080	FWA OF PARTITION 1	01613
1614	0951 8100		NUM \$8100	FWA OF PARTITION 2	01614
1615	0952 8180		NUM \$8180	FWA OF PARTITION 3	01615
1616	0953 FFFF		NUM -0,-0,-0,-0,-0,-0,-0,-0,-0,-0,-0,-0,-0,-0,-0		01616
	0954 FFFF				
	0955 FFFF				
	0956 FFFF				
	0957 FFFF				
	0958 FFFF				
	0959 FFFF				
	095A FFFF				
	095B FFFF				
	095C FFFF				
	095D FFFF				
	095E FFFF				
	095F FFFF				
1617	0960 FFFF	THDS	NUM -0,-0,-0,-0,-0,-0,-0,-0,-0,-0,-0,-0,-0,-0,-0		01617
	0961 FFFF				
	0962 FFFF				
	0963 FFFF				
	0964 FFFF				
	0965 FFFF				
	0966 FFFF				
	0967 FFFF				
	0968 FFFF				
	0969 FFFF				
	096A FFFF				
	096B FFFF				
	096C FFFF				
	096D FFFF				
	096E FFFF				
	096F FFFF				
	0970 FFFF				
1618	0971 0011	USE	BZS USE(17)		01618
1619	0982 FFF0	BUSY.	NUM \$FF0	USING ONLY 4 PARTITIONS SET UPPER BITS TO ONES	01619
1620	0003	LSTPRT	EQU LSTPRT(3)		01620

1622		*		MISCELLANEOUS PROGRAMS		01622
1623		*				01623
1624		*		SYSTEM IDLE LOOP		01624
1626			ENT IDLE	BASIC SYSTEM IDLE LOOP		01626
1627			ENT IDLER	SYSTEM IDLE SUBROUTINE		01627
1628			ENT INSTLU	SYSTEM INSTALLATION L. U.		01628
1630	0983 C805	IDLE	LDA* STRTUP	IS THIS THE INITIAL IDLE ENTRY		01630
1631	0984 0111		SAN IDLE1	NO		01631
1632	0985 5803		RTJ* STRTUP	YES, PERFORM STARTUP FUNCTIONS		01632
1633	0986 5814	IDLE1	RTJ* IDLER			01633
1634	0987 18FB		JMP* IDLE			01634
1636			EXT LIBEDT	LIBRARY EDIT		01636
1637			EXT RELFLE	SYSTEM CORE SWAP ROUTINE		01637
1638			EXT INPTV4	JOB PROCESSOR STANDARD INPUT DEVICE		01638
1639	0006		EQU INSTLU(6)			01639
1641	0988 0000	STARTUP	NUM 0			01641
1642	0989 E0EB		LPO- \$EB			01642
1643	098A F000 X		ADQ =XLIBEDT	OBTAIN THE DIRECTORY ADDRESS OF LIBEDT		01643
	098B 7FFF X					
1644	098C C622		LDA- (ZERO),0	HAVE THE REQUEST PRIORITIES BEEN SET UP		01644
1645	098D 0115		SAN STRTP1	YES		01645
1646	098E C000		LDA =XINSTLU			01646
	098F 0006					
1647	0990 6400 X		STA+ INPTV4	SET THE STD. INPUT TO THE INSTALLATION L.U.		01647
	0991 7FFF X					
1648	0992 1CF5		JMP* (STRTP)	AND EXIT		01648
1650	0993	STRTP1	EQU STRTP1(*)			01650
1651		*				01651
1652		*		NOTE - ANY ADDITIONAL SYSTEM STARTUP FUNCTIONS		01652
1653		*		MAY BE ADDED HERE.		01653
1654		*				01654
1655	0993 54F4		RTJ- (AMONI)	SCHEDULE RELFLE TO FORCE A SWAP		01655
1656	0994 5203		ADC \$5203			01656
1657	0995 7FFF X		ADC RELFLE			01657
1658	0996 1CF1		JMP* (STRTP)			01658

1660		*		MISCELLANEOUS PROGRAMS	01660
1661		*			01661
1662		*		INTERRUPT RESPONSE FOR TIMER	01662
1663		*			01663
1664			ENT	TMRTYP, TMCODE TYPE OF SYSTEM TIME BASE	01664
1665			EXT	TIMEUP TMINT INTERRUPT ENTRY	01665
1666	7FFF		EQU	X(\$7FFF) VALUE FOR UNSELECTED ENTRY POINTS	01666
1667			ENT	E15761	01667
1668	7FFF		EQU	E15761(X) LINK UNSELECTED ENTRY POINT	01668
1670	0000		EQU	TMCODE(0) SOFTWARE PSEUDO TIMER	01670
1671	0997 0006		TMRTYP ADC	6 TIME BASE CODE	01671
1673			ENT	CTR	01673
1674	0998 78F7		CTR	NUM 30967	01674
1675	0999 78F7		BASCTR	NUM 30967 APPROXIMATION TO 60 CPS	01675
1677	099A 0000		IDLER	NUM 0	01677
1678	099B 0500		IIN	0 USED AT LEVEL -1 OR LEVEL 2	01678
1679	099C 01A0		SOV	0	01679
1680	099D 08FA		RAO*	CTR PSEUDO SYSTEM TIMER	01680
1681	099E 01A2		SOV	COUNT SKIP IF 1800 LOOPS EXECUTED	01681
1682	099F 0400		EIN	0	01682
1683	09A0 1CF9		JMP*	(IDLER) BACK TO BASIC IDLE LOOP	01683
1684	09A1 C8F7		COUNT	LDA* BASCTR INITIALIZE LOOP COUNTER	01684
1685	09A2 68F5		STA*	CTR	01685
1686	09A3 E8F6		LDQ*	IDLER SAVE RETURN FOR RE-ENTRANCY IN VOLATILE	01686
1687	09A4 54BB		RTJ-	(AVOLA) GET 3 WORDS VOLATILE STORAGE	01687
1688	09A5 0003		NUM	3	01688
1689	09A6 54F4		RTJ-	(AMONI)	01689
1690	09A7 520D		ADC	\$520D SCHEDULE TMINT AT LEVEL 13	01690
1691	09A8 7FFF X		ADC	TIMEUP	01691
1692	09A9 0500		IIN	0	01692
1693	09AA 54BA		RTJ-	(AVOLR) RETURN VOLATILE	01693
1694	09AB 1622		JMP-	(ZERO), 0 RETURN TO IDLE LOOP	01694

1696				01696
1697	*			01697
1698	*	LINK ALL UNSELECTED ENTRY POINTS		01698
1699	*			01699
1700		ENT E1572F,E1572,01572,E1573,H15721,E15721,D15721,015721,EQ3644		01700
1701		ENT F10336,010336,E10336		01701
1702		ENT DMICOD,EMPSRT,TBLADR		01702
	7FFF	EQU E1572F(X),E1572(X),01572(X),E1573(X),H15721(X)		
	7FFF			
	7FFF			
	7FFF			
1703		EQU E15721(X),D15721(X),015721(X),EQ3644(X)		01703
	7FFF			
	7FFF			
	7FFF			
1704		EQU F10336(X),010336(X),E10336(X)		01704
	7FFF			
	7FFF			
1705		EQU DMICOD(X),EMPSRT(X),TBLADR(X)		01705
	7FFF			
	7FFF			

1707	*	M I S C E L L A N E O U S P R O G R A M S		01707
1708	*			01708
1709	*	A / Q C H A N N E L A L L O C A T I O N		01709
1710	*			01710
1712	*	D E V I C E S R E Q U I R I N G A L L O C A T I O N		01712
1713	*			01713
1714	*	1713	PAPER TAPE READER	01714
1715	*	1713	PAPER TAPE PUNCH	01715
1716	*	1721	PAPER TAPE READER	01716
1717	*	1723	PAPER TAPE PUNCH	01717
1718	*	1777	PAPER TAPE READER	01718
1719	*	1777	PAPER TAPE PUNCH	01719
1720	*	1720-1	PAPER TAPE READER	01720
1721	*	1720-1	PAPER TAPE PUNCH	01721
1722	*	1728/430	CARD READER/PUNCH	01722
1723	*	1725-1	CARD PUNCH	01723
1724	*	1729-2	CARD READER	01724
1725	*	1729-3	CARD READER	01725
1726	*	1731/601	UNBUFFERED MAG TAPE	01726
1727	*	1732-1/608/609	UNBUFFERED MAG TAPE	01727
1729		ENT AQSTCK	STACK FOR REQUESTS	01729
1730		ENT AQSSIZ	STACK SIZE	01730
1732	0002	EQU NUMAQ(2)	QUANTITY OF ALLOCATION DEVICES	01732
1734	09AC 0003	AQSTCK BZS	AQSTCK(3*NUMAQ-3)	01734
1735	09AF 0003	AQSSIZ ADC	NUMAQ*3-3	01735

1737		*		MISCELLANEOUS INFORMATION		01737
1738		*				01738
1739		*		MASS RESIDENT DRIVERS BUFFER		01739
1740		*				01740
1741		*		THIS BUFFER WILL CONTAIN THE MASS RESIDENT DRIVER(S)		01741
1742		*		WHEN THEY ARE IN CORE. THE SMALLEST ALLOWABLE SIZE IS		01742
1743		*		EQUAL TO THE LARGEST MASS RESIDENT DRIVER IN THE SYSTEM.		01743
1744		*		OPTIMUM THROUGHPUT REQUIRES SIZING EQUAL TO THE TWO		01744
1745		*		LARGEST MASS RESIDENT DRIVERS IN THE SYSTEM.		01745
1747				ENT BUFF,BUFFE		01747
1748	0580			EQU MBFSZ(\$580) MASS RESIDENT DRIVER BUFFER		01748
1750	0980 0580		BUFF	BZS BUFF(MBFSZ)		01750
1751	0F30			EQU BUFFE(*)		01751
1753		*		COMMON GHOST INTERRUPT ROUTINE		01753
1755				ENT CGHOST		01755
1757	0F30 0B00		CGHOST	NOP 0		01757
1758	0F31 D802			RAO* GSTCNT	COUNT GHOST INTERRUPTS	01758
1759	0F32 14EA			JMP- (ADISP)		01759
1760	0F33 0000		GSTCNT	NUM 0	COUNT OF GHOST INTERRUPTS	01760

1762	*	MISCELLANEOUS INFORMATION	01762
1763	*		01763
1764	*	MANUAL INTERRUPT INPUT BUFFER	01764
1765	*		01765

1767		ENT MIINP	01767
1768	OF34 0028	MIINP BZS MIINP(40) MANUAL INTERRUPT INPUT BUFFER	01768

1770	*	MISCELLANEOUS INFORMATION	01770
1771	*		01771
1772	*	1781-1 HARDWARE FLOATING	01772
1773	*		01773
1774	*	POINT INFORMATION	01774
1775	*		01775

1777	*	THESE ENTRIES ALLOW PROPER SYSTEM LINKAGE IF THE 1781-1	01777
1778	*	IS NOT SELECTED.	01778

1780		ENT E17811,F17811	01780
1781	OF5C 7FFF	E17811 NUM \$7FFF	01781
1782	7FFF	EQU F17811(\$7FFF)	01782

1784	*	MISCELLANEOUS INFORMATION	01784
1785	*		01785
1786	*	TIME / DATE PARAMETER STORAGE	01786
1787	*		01787

1789	ENT	AYERTO	CURRENT YEAR (ASCII)	01789
1790	ENT	AMONTO	CURRENT MONTH (ASCII)	01790
1791	ENT	ADAYTO	CURRENT DAY (ASCII)	01791
1792	ENT	YERTO	CURRENT YEAR (INTEGER)	01792
1793	ENT	MONTO	CURRENT MONTH (INTEGER)	01793
1794	ENT	DAYTO	CURRENT DAY (INTEGER)	01794
1795	ENT	HORTO	CURRENT HOUR (INTEGER)	01795
1796	ENT	MINTO	CURRENT MINUTE (INTEGER)	01796
1797	ENT	SECON	CURRENT SECOND (INTEGER)	01797
1798	ENT	CONTA	CURRENT COUNT (INTEGER)	01798
1799	ENT	HORMIN	CURRENT 24-HOUR TIME	01799
1800	ENT	TOTMIN	CURRENT DAY ELAPSED MINUTES	01800

1802	0F5D	0184	X	AYERTO	ADC	SYSYER	CURRENT YEAR (ASCII)	01802
1803	0F5E	0182	X	AMONTO	ADC	SYSMON	CURRENT MONTH (ASCII)	01803
1804	0F5F	0183	X	ADAYTO	ADC	SYSDAY	CURRENT DAY (ASCII)	01804
1805	0F60	0001		YERTO	NUM	1	CURRENT YEAR (INTEGER)	01805
1806	0F61	0001		MONTO	NUM	1	CURRENT MONTH (INTEGER)	01806
1807	0F62	0001		DAYTO	NUM	1	CURRENT DAY (INTEGER)	01807
1808	0F63	0000		HORTO	NUM	0	06 CURRENT HOUR (INTEGER)	01808
1809	0F64	0000		MINTO	NUM	0	07 CURRENT MINUTE (INTEGER)	01809
1810	0F65	0000		SECON	NUM	0	08 CURRENT SECOND (INTEGER)	01810
1811	0F66	0000		CONTA	NUM	0	09 CURRENT COUNT (INTEGER)	01811
1812	0F67	0000		HORMIN	NUM	0	10 CURRENT 24-HOUR TIME	01812
1813	0F68	0000		TOTMIN	NUM	0	11 CURRENT DAY ELAPSED MINUTES	01813

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SYSDAT

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1815	*	M I S C E L L A N E O U S I N F O R M A T I O N		01815
1816	*			01816
1817	*	S Y S T E M T I M E R P A R A M E T E R S		01817
1819		ENT TIMCPS	BASIC SYSTEM CLOCK FREQUENCY	01819
1821	003C	TIMCPS EQU TIMCPS(60)	TIMER CYCLES PER SECOND	01821
1823		ENT TIMEC	TIMER CYCLES PER 1/10 SECOND MINUS 1	01823
1825	0005	TIMEC EQU TIMEC(TIMCPS/10-1)		01825
1827		ENT TODLVL	TIME OF DAY(TOD) PROGRAM REQ. CODE + PRIORITY	01827
1829	5006	TODLVL EQU TODLVL(\$5006) D-BIT = 1, REQUEST CODE 8, PRIORITY 6		01829
1831		ENT NSCHED	MAX. NO. OF COMPLETIONS PER TIMER INTERVAL	01831
1833	0F69 0005	NSCHED NUM 5	MAXIMUM 5 COMPLETIONS PER INTERVAL	01833
1835		ENT TMRLVL	DIAGNOSTIC TIMER PRIORITY LEVEL	01835
1837	000D	TMRLVL EQU TMRLVL(13)	LEVEL 13	01837

1839	*	M I S C E L L A N E O U S I N F O R M A T I O N		01839
1840	*			01840
1841	*	S Y S T E M P R O G R A M O V E R L A Y S I Z E S		01841
1843		ENT	LSIZV4 INITIAL OVERLAY SIZE OF LIBEDT	01843
1844		ENT	PSIZV4 SIZE OF AREA 3	01844
1845		ENT	ODBSIZ INITIAL OVERLAY SIZE OF ODEBUD	01845
1847	04B5	EQU	LSIZV4(\$4B5) INITIAL OVERLAY SIZE OF LIBEDT	01847
1848	03F1	EQU	PSIZV4(\$3F1) SIZE OF AREA 3	01848
1849	0369	EQU	ODBSIZ(\$369) INITIAL OVERLAY SIZE OF ODEBUD	01849
1851	*	M I S C E L L A N E O U S I N F O R M A T I O N		01851
1852	*			01852
1853	*	S C M M I N C O R E F L A G		01853
1854	*			01854
1855		ENT	SCMLC	01855
1857	0F6A 0000	SCMLC NUM 0	NON-ZERO IF S C M M R U N N I N G	01857
1859	*	M I S C E L L A N E O U S I N F O R M A T I O N		01859
1860	*			01860
1861	*	O N L I N E D E B U G I N C O R E F L A G		01861
1862	*			01862
1863		ENT	CHRSEFC	01863
1865	0F6B 0000	CHRSEFC NUM 0	NON-ZERO IF ODEBUD R U N N I N G	01865

1867	*	MISCELLANEOUS INFORMATION	01867
1868	*		01868
1869	*	SYSTEM CHECKOUT PARAMETERS	01869
1871	*	THE STARTING SECTOR OF THE FAILED CORE IMAGE IS SPECIFIED BY	01871
1872	*	THE NAME COBOPS. THIS AREA MUST BE SIZED TO ACCOMODATE A	01872
1873	*	FAILED IMAGE OF THE SIZE SPECIFIED BY NAME MSIZV4. THE FAILED	01873
1874	*	IMAGE MUST RESIDE ON THE LIBRARY MASS MEMORY UNIT. IF THE	01874
1875	*	MASS MEMORY LIBRARY UNIT IS A CARTRIDGE DISK, THE IMAGE AREA	01875
1876	*	CANNOT OVERLAP FROM ONE PLATTER TO THE OTHER.	01876
1877	*	\$2AA SECTORS FOR 65K WORDS	01877
1878	*	COBOPS DEFINED BY *S INSTALL	01878
1880	*	THIS ENTRY IS PROVIDED TO LINK THE FORTRAN REENTRANCY DATA	01880
1881	*	ENTRY POINTS	01881
1883		ENT FMASK,FLIST,DOUT	01883
1885	7FFF	EQU FMASK(\$7FFF),FLIST(\$7FFF),DOUT(\$7FFF)	01885
	7FFF		
	7FFF		
1887	*	THIS ENTRY IS PROVIDED TO LINK THE TIMESHARE PROTECT INTERRUPT	01887
1888	*	PROCESSOR ENTRY POINT	01888
1890		ENT TSIPRC	01890
1892	7FFF	EQU TSIPRC(\$7FFF)	01892
1893	*	THIS ENTRY IS FOR THE SYSCOP ACTIVE FLAG	01893
1894	*		01894
1895		ENT SYCFLG	01895
1896	0F6C 0000	SYCFLG NUM 0 SYSCOP ACTIVE FLAG	01896

1898	*	M I S C E L L A N E O U S I N F O R M A T I O N	01898
1899	*		01899
1900	*	F I L E M A N A G E R D A T A	01900
1901	*		01901
1902	*	T H E S E E N T R I E S A L L O W P R O P E R S Y S T E M L I N K A G E F O R I F T H E F I L E	01902
1903	*	M A N A G E R I S N O T S E L E C T E D .	01903
1905		ENT FSLIST,FMPFLG	01905
1906		ENT ADRFMS,NUMFS0	01906
1907	7FFF	EQU FSLIST(\$7FFF),FMPFLG(\$7FFF)	01907
	7FFF		
1908	7FFF	EQU ADRFMS(\$7FFF),NUMFS0(\$7FFF)	01908
	7FFF		
1909		ENT BEGLU1,NUMFS1	01909
1910	7FFF	EQU BEGLU1(\$7FFF),NUMFS1(\$7FFF)	01910
	7FFF		
1911		ENT BEGLU2,NUMFS2	01911
1912	7FFF	EQU BEGLU2(\$7FFF),NUMFS2(\$7FFF)	01912
	7FFF		
1913		ENT BEGLU3,NUMFS3	01913
1914	7FFF	EQU BEGLU3(\$7FFF),NUMFS3(\$7FFF)	01914
	7FFF		
1915		ENT BEGLU4,NUMFS4	01915
1916	7FFF	EQU BEGLU4(\$7FFF),NUMFS4(\$7FFF)	01916
	7FFF		
1917		ENT BEGLU5,NUMFS5	01917
1918	7FFF	EQU BEGLU5(\$7FFF),NUMFS5(\$7FFF)	01918
	7FFF		
1919		ENT BEGLU6,NUMFS6	01919
1920	7FFF	EQU BEGLU6(\$7FFF),NUMFS6(\$7FFF)	01920
	7FFF		
1921		ENT BEGLU7,NUMFS7	01921
1922	7FFF	EQU BEGLU7(\$7FFF),NUMFS7(\$7FFF)	01922
	7FFF		
1923		ENT BEGLU8,NUMFS8	01923
1924	7FFF	EQU BEGLU8(\$7FFF),NUMFS8(\$7FFF)	01924
	7FFF		

1926	*	MISCELLANEOUS INFORMATION	01926
1927	*		01927
1928	*	JOB PROCESSOR FILE PARAMETERS	01928
1929	*		01929
1931	ENT	JLLUV4 LOGICAL UNIT OF JOB PROCESSOR FILES	01931
1932	ENT	JBFLV4 NUMBER OF JOB PROCESSOR FILES	01932
1933	ENT	FBASV4 FIRST FILE NUMBER USED BY JOB PROCESSOR	01933
1934	ENT	PKEYV4 JOB FILE PURGE KEY	01934
1935	ENT	RELFIL FILE RELEASE PROCESSOR (DUMMY)	01935
1937	OF6D 0008	JLLUV4 ADC LBUNIT LOGICAL UNIT OF JOB PROCESSOR FILES	01937
1939	0000	EQU JBFLV4(0) NUMBER OF JOB PROCESSOR FILES	01939
1940	*		01940
1941	*	LINK ENTRY POINTS REFERENCED BY THE JOB FILE PROCESSORS	01941
1942	*		01942
1943	7FFF	EQU FBASV4(\$7FFF)	01943
1944	7FFF	EQU PKEYV4(\$7FFF)	01944
1945	7FFF	EQU RELFIL(\$7FFF)	01945
1946	*		01946
1947	*	NOTE - FILES \$7FFD THRU \$7FFF ARE RESERVED FOR THE MSOS	01947
1948	*	VERIFICATION TESTS, FILES \$7FF5 THRU \$7FFC ARE	01948
1949	*	RESERVED FOR FOREGROUND PSEUDO TAPES, FILES \$7FF3	01949
1950	*	THRU \$7FF4 ARE RESERVED FOR THE TEXT EDITOR, AND	01950
1951	*	FILES \$7F2B THRU \$7FF2 ARE RESERVED FOR RPGII.	01951

1953		*		P R E S E T	R E G I O N				01953
1954		*							01954
1955		*		P R E S E T	P R O T E C T E D	E N T R Y	P O I N T S	F O R	01955
1956		*							01956
1957	0F6E		APRSET	EQU	APRSET(*)				01957
1958				ENT	JPRET				01958
1960		*		J O B	P R O C E S S O R	P R E S E T			01960
1962				EXT	JPRETN				01962
1963	0F6E	4A50		ALF	3,JPRETN				01963
	0F6F	5245							
	0F70	544E							
1964	0F71	7FFF	X	JPRET	ADC	JPRETN		J O B	01964
1965			*					P R O C E S S O R	01965
								R E T U R N	
1967		*		S N A P	D U M P	P R E S E T			01967
1969				EXT	SNAPOL				01969
1970	0F72	534E		ALF	3,SNAPOL				01970
	0F73	4150							
	0F74	4F4C							
1971	0F75	7FFF	X	ADC	SNAPOL			R E G I S T E R	01971
1972			*					S N A P S H O T	01972
1974	0008	LPRSET	EQU	LPRSET(*-APRSET)					01974

1977	*	SYSTEM LIBRARY DIRECTORY	01977
1978	*		01978
1979	*	COMPILED FROM *Y, *YM BY SYSTEM INITIALIZER	01979
1980	OF76	SLDIRY EQU SLDIRY(*)	01980
1981		END	01981

PGM= OF76 (3958) COM = 0000 (0) DAT = 0000 (0)

EQUIVALENCES

DEF.LINE	NAME	VALUE	REFERENCED AT LINE NUMBER
0000	I	00FF (000255)	0789, 0790
0076	LPMSK	0002 (000002)	
0077	ONE	0003 (000003)	
0078	THREE	0004 (000004)	
0079	SEVEN	0005 (000005)	
0093	NZERO	0012 (000018)	
0112	ZERO	0022 (000034)	1644, 1694
0114	ONEBIT	0023 (000035)	
0115	TWO	0024 (000036)	
0116	FOUR	0025 (000037)	
0117	EIGHT	0026 (000038)	
0131	ZROBIT	0033 (000051)	
0148	FIVE	0043 (000067)	
0149	SIX	0044 (000068)	
0150	NINE	0045 (000069)	
0151	TEN	0046 (000070)	
0283	AFNR	00B5 (000181)	
0284	ACOMPR	00B6 (000182)	
0288	AVOLR	00BA (000186)	1693
0289	AVOLA	00BB (000187)	1687
0308	ADISP	00EA (000234)	0794, 1759
0318	AMONI	00F4 (000244)	1655, 1689
0336	LINE00	0100 (000256)	
0341	LINE01	0104 (000260)	
0346	LINE02	0108 (000264)	
0352	LINE03	010C (000268)	
0357	LINE04	0110 (000272)	
0362	LINE05	0114 (000276)	
0368	LINE06	0118 (000280)	
0374	LINE07	011C (000284)	
0379	LINE08	0120 (000288)	
0385	LINE09	0124 (000292)	
0391	LINE10	0128 (000296)	
0397	LINE11	012C (000300)	
0402	LINE12	0130 (000304)	
0408	LINE13	0134 (000308)	
0414	LINE14	0138 (000312)	
0419	LINE15	013C (000316)	

0439	MASKT	0145	(000325)	0285, 0439
0487	MAXSEC	016B	(000363)	0487
0488	MPFLAG	0170	(000368)	0488
0493	CSYLSL	0009	(000009)	0504
0494	CSYINP	000A	(000010)	0502
0495	CSYPUN	000B	(000011)	0503
0496	JFILV4	7FFF	(032767)	0509
0497	SECT1	0000	(000000)	0522
0498	SECT3	0000	(000000)	0524
0499	SECT4	0000	(000000)	0525
0501	EXTBV4	0155	(000341)	0307
0534	SYSID	0172	(000370)	0534
0546	SYFAIL	0185	(000389)	0074, 0546, 0554, 0556
0559	SAVEA	018F	(000399)	0550
0560	SAVEQ	0190	(000400)	0551
0561	SAVEM	0191	(000401)	0553
0566	NUMPRI	0010	(000016)	0582, 0594
0567	EXTVOL	0000	(000000)	0594
0569	NFTNLV	0000	(000000)	0594
0570	MEDLVL	0000	(000000)	0594
0575	INTSTK	0192	(000402)	0286, 0575
0587	VOLBLK	01E2	(000482)	0314, 0587
0588	VOLEND	0303	(000771)	0588
0600	SCHSTK	0303	(000771)	0282, 0600, 0632
0601	SCHLNG	0064	(000100)	0601
0637	LOGIA	0367	(000871)	0529, 0637, 0668, 0900, 1053, 1084 1143, 1174, 1433, 1434, 1494
0638	NUMLU	001B	(000027)	0638, 0640, 0681, 0715, 0749, 0750
0652	FTN742	0373	(000883)	1434
0661	X1711	037C	(000892)	0900
0662	X17293	037D	(000893)	1494
0663	X73230	037E	(000894)	1053
0664	X42312	037F	(000895)	1433
0665	X731U0	0380	(000896)	1143
0666	X731U1	0381	(000897)	1174
0667	X73231	0382	(000898)	1084
0673	LOG1	0383	(000899)	0673
0679	S	4000	(016384)	0683, 0684, 0685, 0687, 0688, 0690 0691, 0692, 0693, 0694, 0697, 0698 0702, 0703, 0704, 0705, 0706, 0707 0708
0713	LOG2	039F	(000927)	0713
0747	ALTERR	03BB	(000955)	0747
0752	DCNTAB	03D7	(000993)	0752
0770	DUMALT	0000	(000013)	0770
0773	INPCOM	0004	(000004)	0327
0774	OUTCOM	0004	(000004)	0326
0775	LBUNIT	0008	(000008)	0296, 1937
0776	SCRATCH	0008	(000008)	0281
0777	LSTOUT	0009	(000009)	0325
0778	STDINP	000A	(000010)	0323
0779	BINOUT	000B	(000011)	0324
0785	LINIV4	03E2	(000994)	0344, 0785

0792	INVINT	03E6	(000998)	0349, 0365, 0371, 0382, 0388, 0394 0405, 0411, 0422, 0792
0797	LNITV4	03E7	(000999)	0787
0804	RELBVO	7FFF	(032767)	0804
0819	PHYSTB	03E9	(001001)	
0820	ELVL	0000	(000000)	
0821	EDIN	0001	(000001)	
0822	EDCN	0002	(000002)	
0823	EDPGM	0003	(000003)	
0824	EDCLK	0004	(000004)	
0825	ELU	0005	(000005)	
0826	EPTR	0006	(000006)	
0827	EWES	0007	(000007)	
0828	EREQST	0008	(000008)	
0829	ESTAT1	0009	(000009)	
0830	ECCOR	000A	(000010)	
0831	ELSTWD	000B	(000011)	
0832	ESTAT2	000C	(000012)	
0833	MASLGM	000D	(000013)	
0834	MASSEC	000E	(000014)	
0835	RETURN	000F	(000015)	
0839	PIPECM	7FFF	(032767)	0839
0840	P1PPCA	7FFF	(032767)	0840
0841	P1PADP	7FFF	(032767)	0841
0842	P1PMXP	7FFF	(032767)	0842
0851	PCORE	03E9	(001001)	0641, 0755, 0851
0853	SWAPT	0000	(000000)	0868
0877	PPUMMY	03F9	(001017)	0642, 0643, 0651, 0653
0898	T713	0040	(000064)	
0899	T1711	0000	(000000)	0910
0900	U1711	0015	(000021)	0920
0902	P1711	0409	(001033)	0644, 0661, 0756, 0798
0925	MCOSY1	0000	(000000)	0927, 0933
0929	LCOSY	0000	(000000)	0956, 0996
0930	SCOSY	7FFF	(032767)	0957, 0997
0943	PCOSY1	041C	(001052)	0645, 0999
0977	INPBFA	043D	(001085)	0971, 0972
0983	PCOSY2	04FD	(001277)	0660, 0959
1017	INPBFB	051E	(001310)	1011, 1012
1023	T6167	0350	(000848)	1094
1024	T6169	0360	(000864)	1063
1025	PHSREC	00C0	(000192)	1027, 1079, 1110
1027	BF1F33	05DE	(001502)	1080, 1111
1029	M17323	0000	(000000)	1031, 1039
1035	L17323	0000	(000000)	1068, 1099
1036	S17323	7FFF	(032767)	1069, 1100
1048	R17323	06E0	(001760)	0377
1053	U73230	0017	(000023)	1072
1055	P73230	06E3	(001763)	0646, 0663, 0757, 1048, 1049, 1109
1084	U73231	0018	(000027)	1103
1086	P73231	06FD	(001789)	0647, 0667, 0758, 1078
1116	E0601	000E	(000014)	1117
1117	E601	0701	(001793)	1152, 1183

1119	M1731U	0000	(000000)	1121, 1129
1125	L1731U	0000	(000000)	1158, 1189
1126	S1731U	7FFF	(032767)	1159, 1190
1138	R1731U	0717	(001815)	0417
1143	U731U0	0019	(000025)	1162
1145	P731U0	071A	(001818)	0656, 0665, 0762, 1138, 1139, 1200
1174	U731U1	001A	(000026)	1193
1176	P731U1	0734	(001844)	0657, 0666, 0763, 1169
1206	MTSIM0	0000	(000000)	1208, 1214
1210	LMTSIM	0000	(000000)	1240, 1271, 1302
1211	SMTSIM	7FFF	(032767)	1241, 1272, 1303
1227	PTSIM0	074E	(001870)	0659, 1312
1258	PTSIM1	0766	(001894)	0654, 1250
1289	PTSIM2	077E	(001918)	0655, 1281
1317	P332D0	0799	(001945)	1317
1319	T8562	00F0	(000240)	1388
1320	T8564	0100	(000256)	1337
1322	R17332	0796	(001942)	0355
1329	P73320	0799	(001945)	0648, 0759, 1322, 1323, 1402
1374	BF332A	07C5	(001989)	1358
1380	P73321	0825	(002085)	0658, 0764, 1351
1425	BF332B	0851	(002129)	1409
1431	T4230	0110	(000272)	
1432	T4212	0120	(000288)	1469
1433	U42312	0018	(000024)	1484
1434	F42312	000C	(000012)	1480
1436	M42312	0000	(000000)	1438, 1446
1442	L42312	0000	(000000)	1474
1443	S42312	7FFF	(032767)	1475
1455	R42312	08B1	(002225)	0360
1461	P42312	08B4	(002228)	0649, 0652, 0664, 0760, 1455, 1456
1494	U17293	0016	(000022)	1548
1496	M17293	0000	(000000)	1498, 1506
1502	L17293	0000	(000000)	1534
1503	S17293	7FFF	(032767)	1535
1515	R17293	08CC	(002252)	0400
1521	P17293	08CF	(002255)	0650, 0662, 0761, 1515, 1516
1550	RFR293	08EB	(002283)	1538
1555	LSTLOC	093B	(002363)	1555
1562	CALTHD	093C	(002364)	1562
1563	LVLSTR	093E	(002366)	1563
1588	N5	0000	(000000)	1588
1588	N6	0000	(000000)	1588
1588	N7	0000	(000000)	1588
1588	N8	0000	(000000)	1588
1588	N9	0000	(000000)	1588
1588	N10	0000	(000000)	1588
1588	N11	0000	(000000)	1588
1588	N12	0000	(000000)	1588
1588	N13	0000	(000000)	1588
1588	N14	0000	(000000)	1588
1588	N15	0000	(000000)	1588
1610	THDS	0960	(002400)	1610

1610	USE	0971	(002417)	1610
1611	PARTBL	090F	(002383)	1611
1611	LSTPRT	0003	(000003)	1611
1611	BUSY	0982	(002434)	1611
1626	IDLE	0983	(002435)	1626, 1634
1627	IDLER	099A	(002458)	1627, 1633, 1683, 1686
1628	INSTLU	0006	(000006)	1628, 1646
1633	IDLE1	0986	(002438)	1631
1641	STRUP	0988	(002440)	1630, 1632, 1648, 1658
1650	STRTP1	0993	(002451)	1645
1664	TMRTYP	0997	(002455)	1664
1664	TMCODE	0000	(000000)	1664
1666	X	7FFF	(032767)	1668, 1702, 1702, 1702, 1702, 1702, 1703, 1703, 1703, 1703, 1704, 1704, 1704, 1705, 1705, 1705
1667	E15761	7FFF	(032767)	1667
1673	CTR	0998	(002456)	1673, 1680, 1685
1675	BASCTR	0999	(002457)	1684
1684	COUNT	09A1	(002465)	1681
1699	E1572F	7FFF	(032767)	1699
1699	E1572	7FFF	(032767)	1699
1699	01572	7FFF	(032767)	1699
1699	E1573	7FFF	(032767)	1699
1699	H15721	7FFF	(032767)	1699
1699	E15721	7FFF	(032767)	1699
1699	D15721	7FFF	(032767)	1699
1699	015721	7FFF	(032767)	1699
1699	EQ3644	7FFF	(032767)	1699
1700	F10336	7FFF	(032767)	1700
1700	010336	7FFF	(032767)	1700
1700	E10336	7FFF	(032767)	1700
1701	PMICOD	7FFF	(032767)	1701
1701	EMPSRT	7FFF	(032767)	1701
1701	TBLADR	7FFF	(032767)	1701
1729	AQSTCK	09AC	(002476)	1729
1730	AQSSIZ	09AF	(002479)	1730
1732	NUMAQ	0002	(000002)	1734, 1735
1747	BUFF	09B0	(002480)	1747
1747	BUFFE	0F30	(003888)	1747
1748	MBFSZ	0580	(001408)	1750
1755	CGHOST	0F30	(003888)	1755
1760	GSTCNT	0F33	(003891)	1758
1767	MIINP	0F34	(003892)	1767
1780	E17811	0F5C	(003932)	1780
1780	F17811	7FFF	(032767)	1780
1789	AYERTO	0F5D	(003933)	0513, 1789
1790	AMONTO	0F5E	(003934)	0514, 1790
1791	ADAYTO	0F5F	(003935)	0515, 1791
1792	YERTO	0F60	(003936)	1792
1793	MONTO	0F61	(003937)	1793
1794	DAYTO	0F62	(003938)	1794
1795	HORTO	0F63	(003939)	1795
1796	MINTO	0F64	(003940)	1796

1797	SECOM	OF65	(003941)	1797
1798	CONTA	OF66	(003942)	1798
1799	HORMIN	OF67	(003943)	1799
1800	TOTMIN	OF68	(003944)	1800
1819	TIMCPS	003C	(000060)	1819, 1825
1823	TIMEC	0005	(000005)	1823
1827	TODLVL	5006	(020486)	1827
1831	NSCHED	OF69	(003945)	1831
1835	TMRLVL	000D	(000013)	1835
1843	LSIZV4	04B5	(001205)	1843
1844	PSIZV4	03F1	(001009)	1844
1845	ODBSJZ	0369	(000873)	1845
1855	SCMMLC	0F6A	(003946)	1855
1863	CHRSEF	0F6B	(003947)	1863
1883	FMASK	7FFF	(032767)	1883
1883	FLIST	7FFF	(032767)	1883
1883	DOIT	7FFF	(032767)	1883
1890	TSIPRC	7FFF	(032767)	1890
1895	SYCFLG	0F6C	(003948)	1895
1905	FSLIST	7FFF	(032767)	1905
1905	FMPFLG	7FFF	(032767)	1905
1906	ADRFMS	7FFF	(032767)	1906
1906	NUMFS0	7FFF	(032767)	1906
1909	BEGLU1	7FFF	(032767)	1909
1909	NUMFS1	7FFF	(032767)	1909
1911	BEGLU2	7FFF	(032767)	1911
1911	NUMFS2	7FFF	(032767)	1911
1913	BEGLU3	7FFF	(032767)	1913
1913	NUMFS3	7FFF	(032767)	1913
1915	BEGLU4	7FFF	(032767)	1915
1915	NUMFS4	7FFF	(032767)	1915
1917	BEGLU5	7FFF	(032767)	1917
1917	NUMFS5	7FFF	(032767)	1917
1919	BEGLU6	7FFF	(032767)	1919
1919	NUMFS6	7FFF	(032767)	1919
1921	BEGLU7	7FFF	(032767)	1921
1921	NUMFS7	7FFF	(032767)	1921
1923	BEGLU8	7FFF	(032767)	1923
1923	NUMFS8	7FFF	(032767)	1923
1931	JLLIV4	0F6D	(003949)	1931
1932	JBFLV4	0000	(000000)	1932
1933	FRASV4	7FFF	(032767)	1933
1934	PKEYV4	7FFF	(032767)	1934
1935	RELFIL	7FFF	(032767)	1935
1957	APRSET	0F6E	(003950)	0316, 1974
1958	JPRET	0F71	(003953)	1958
1974	LPRSET	0008	(000008)	0315
1980	SLDIRY	0F76	(003958)	0309

EXTERNALS

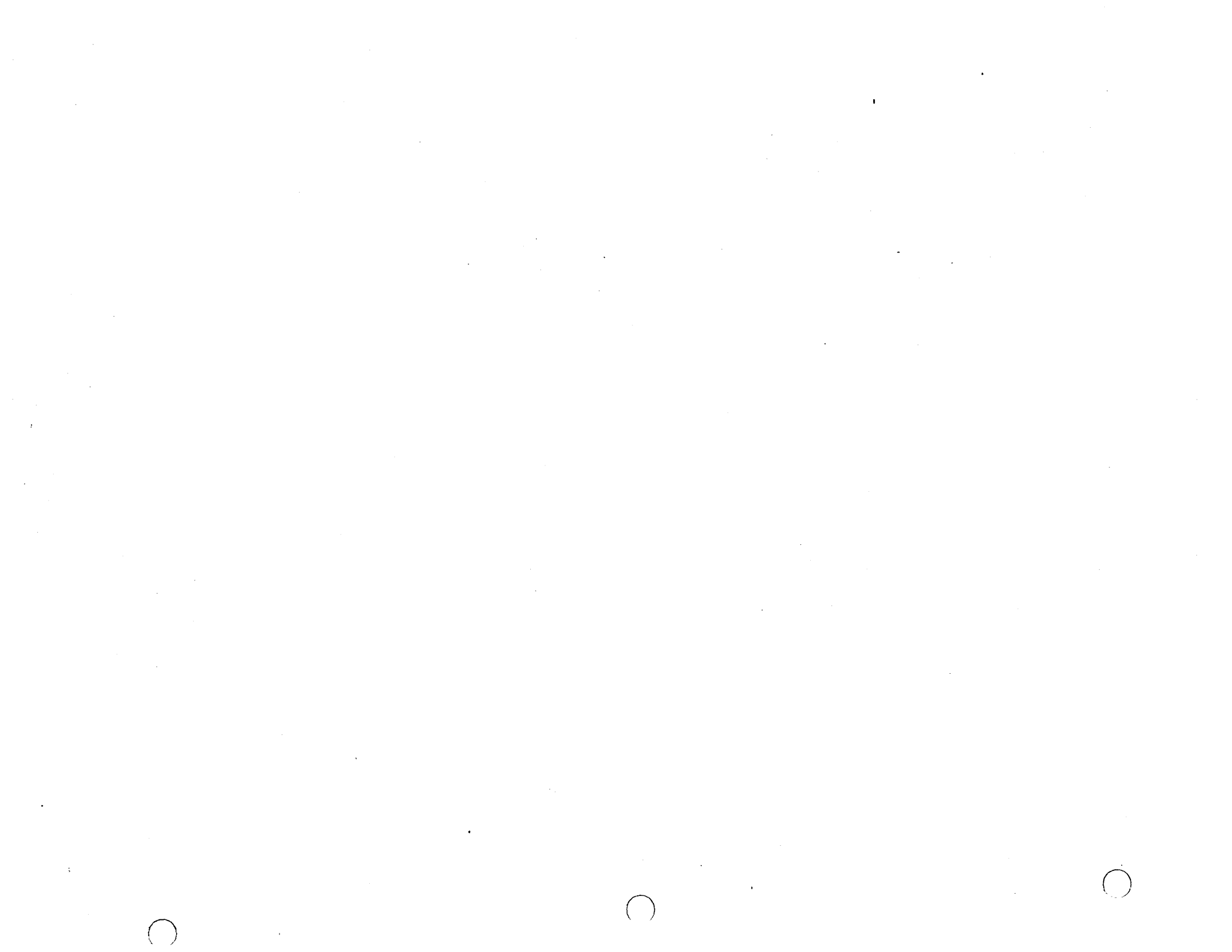
DEF.LINE	NAME	VALUE	REFERENCED AT LINE NUMBER
0056	FMR	00B5	0283
0057	COMPRQ	00B6	0284
0058	REQXT	00B9	0287
0059	VOLR	00BA	0288
0060	VOLA	00BB	0289
0061	LUABS	00BC	0290
0062	SABS	00BD	0291
0063	CABS	00BE	0292
0064	NABS	00BF	0293
0065	DISPXX	00EA	0308
0066	MONI	00F4	0318
0067	MSIZV4	00F5	0319
0068	IPROC	0103	0322, 0339
0069	ALLIN	00FE	0328
0429	COUTV4	0141	0432
0430	COBOP	0143	0434
0489	RCTV	015E	0510
0490	ENDOV4	0164	0516
0491	DATBAS	0166	0518
0492	SECTOR	016B	0523
0535	SYSMON	0F5E	0540, 1803
0536	SYSDAY	0F5F	0541, 1804
0537	SYSYER	0F5D	0542, 1802
0852	ICORE	03EA	0856
0852	ECORE	03EC	0858
0875	IDUMMY	03FA	0878
0875	CDUMMY	03FB	0879
0875	EDUMMY	03FC	0880
0897	I1711	040A	0903
0897	C1711	040B	0904
0897	E1711	040C	0905
0928	ICOSY	04FE	0944, 0984
1032	I17323	06FE	1056, 1087
1033	C17323	06FF	1057, 1088
1034	E17323	0700	1058, 1089
1122	I1731U	0735	1146, 1177
1123	C1731U	0736	1147, 1178
1124	E1731U	0737	1148, 1179
1209	IMTSIM	077F	1228, 1259, 1290
1224	MTBFS0	0762	1247
1225	MTBFEO	0764	1249

1255	MTBFS1	077A	1278
1256	MTBFE1	077C	1280
1286	MTBFS2	0792	1309
1287	MTBFE2	0794	1311
1318	I17332	0826	1330, 1381
1318	C17332	0827	1331, 1382
1318	E17332	0828	1332, 1383
1439	I42312	08B5	1462
1440	C42312	08B6	1463
1441	E42312	08B7	1464
1499	I17293	08D0	1522
1500	C17293	08D1	1523
1501	E17293	08D2	1524
1556	BGNMON	093B	1558
1564	AREAC	094D	1568, 1570, 1571, 1572, 1573, 1574 1575, 1576, 1577, 1578, 1579, 1580 1581, 1582, 1583, 1584, 1585
1565	LEND	094E	1586
1636	LIBEDT	098B	1643
1637	RELFL	0995	1657
1638	INPTV4	0991	1647
1665	TIMEUP	09A8	1691
1962	JPRETN	0F71	1964
1969	SNAPOL	0F75	1971

*** ALPHABETICAL SORT OF SYMBOLS ***

ACOMPR	0284	ADAYTO	1791	ADISP	0308	ADRFMS	1906	AFNR	0283
ALLIN	0069	ALTERR	0747	AMONI	0318	AMONTO	1790	APRSET	1957
AOSSIZ	1730	AQSTCK	1729	AREAC	1564	AVOLA	0289	AVOLR	0288
AYERTO	1789	RASCTR	1675	BEGLU1	1909	BEGLU2	1911	BEGLU3	1913
BEGLU4	1915	BEGLU5	1917	BEGLU6	1919	BEGLU7	1921	BEGLU8	1923
BF1F33	1027	BF332A	1374	BF332B	1425	BFR203	1550	BGNMON	1556
BTMOUT	0779	BUFF	1747	BUFFE	1747	BUSY	1611	C1711	0897
C17203	1500	C1731U	1123	C17323	1033	C17332	1318	C42312	1440
CARS	0063	CALTRD	1562	CDUMMY	0875	CGHOST	1755	CHRSFC	1863
COBOP	0430	COMPRO	0057	CONTA	1798	COUNT	1684	COUTV4	0429
CSYINP	0494	CSYLST	0493	CSYPUN	0495	CTR	1673	D15721	1699
DATBAS	0491	DAYTO	1794	DCNTAB	0752	DISPXX	0065	DMICOD	1701
DOUT	1883	DUMALT	0770	E10336	1700	E1572	1699	E15721	1699
E1572F	1699	E1573	1699	E15761	1667	E1711	0897	E17293	1501
E1731U	1124	E17323	1034	E17332	1318	E17811	1780	E42312	1441
E601	1117	ECCOR	0830	ECORE	0852	EDCLK	0824	EDCN	0822
EDIN	0821	EDPCM	0823	EDUMMY	0875	EIGHT	0117	ELSTWD	0831
ELU	0825	ELVL	0820	EMPSRT	1701	ENDOV4	0490	EPTR	0826
E03644	1699	EQ601	1116	EREQST	0828	ESTAT1	0829	ESTAT2	0832
EWES	0827	EXTBV4	0501	EXTVOL	0567	F10336	1700	F17811	1780
F42312	1434	FBASV4	1933	FIVE	0148	FLIST	1883	FMASK	1883
FMPFLG	1905	FNR	0056	FOUR	0116	FSLIST	1905	FTN742	0652
GSTCNT	1760	H15721	1699	HORMIN	1799	HORTO	1795	I	0000
I1711	0897	I17293	1499	I1731U	1122	I17323	1032	I17332	1318
I42312	1439	ICORE	0852	ICOSY	0928	IDLE	1626	IDLE1	1633
IDLER	1627	IDUMMY	0875	IMTSIM	1209	INPBFA	0977	INPFBF	1017
INPCOM	0773	INPTV4	1638	INSTLU	1628	INTSTK	0575	INVINT	0792
IPROC	0068	JBFLV4	1932	JFILV4	0496	JLLUV4	1931	JPRET	1958
JPRETN	1962	L17293	1502	L1731U	1125	L17323	1035	L42312	1442
LBUNJT	0775	LCOSY	0929	LEND	1565	LIBEDT	1636	LIN1V4	0785
LINE00	0336	LINE01	0341	LINE02	0346	LINE03	0352	LINE04	0357
LINE05	0362	LINE06	0368	LINE07	0374	LINE08	0379	LINE09	0385
LINE10	0391	LINE11	0397	LINE12	0402	LINE13	0408	LINE14	0414
LINE15	0419	LMTSIM	1210	LN1TV4	0797	LOG1	0673	LOG1A	0637
LOG2	0713	LPMSK	0076	LPRSET	1974	LS1ZV4	1843	LSTLOC	1555
LSTOUT	0777	LSTPRT	1611	LUABS	0061	LVLSTR	1563	M17293	1496
M1731U	1119	M17323	1029	M42312	1436	MASKT	0439	MASLGN	0833
MASSEC	0834	MAXSEC	0487	MBFSZ	1748	MCOY1	0925	MIINP	1767
MINTO	1796	MONI	0066	MONTO	1793	MPFLAG	0488	MS1ZV4	0067
MTRFE0	1225	MTBFE1	1256	MTBFE2	1287	MTBFS0	1224	MTBFS1	1255
MTRFS2	1286	MTSIM0	1206	N10	1588	N11	1588	N12	1588
N13	1588	N14	1588	N15	1588	N5	1588	N6	1588
N7	1588	N8	1588	N9	1588	NABS	0064	NEDLVL	0570
NFTNLV	0569	NINE	0150	NSCHED	1831	NUMAQ	1732	NUMFS0	1906
NUMFS1	1909	NUMFS2	1911	NUMFS3	1913	NUMFS4	1915	NUMFS5	1917
NUMFS6	1919	NUMFS7	1921	NUMFS8	1923	NUMLU	0638	NUMPRI	0566
NZERO	0093	O10336	1700	O1572	1699	O15721	1699	ODBSIZ	1845
ONE	0077	ONEBIT	0114	OUTCOM	0774	P1711	0902	P17293	1521
P18ADD	0841	P18REC	0839	P18MXP	0842	P18PGA	0840	P33200	1317

P42312	1461	P731U0	1145	P731U1	1176	P73230	1055	P73231	1086
P73320	1329	P73321	1380	PARTRL	1611	PCORE	0851	PCOSY1	0943
PCOSY2	0983	PPUMMY	0877	PHSREC	1025	PHYSTB	0819	PKEYV4	1934
PSIZV4	1844	PTSIMO	1227	PTSIM1	1258	PTSIM2	1289	R17293	1515
R1731U	1138	R17323	1048	R17332	1322	R42312	1455	RCTV	0489
RFLBYQ	0804	RELFL	1935	RELFL	1637	REQXT	0058	RETURN	0835
S	0679	S17293	1503	S1731U	1126	S17323	1036	S42312	1443
SABS	0062	SAVEA	0559	SAVEM	0561	SAVEQ	0560	SCHLNG	0601
SCHSTK	0600	SCMLLC	1855	SCOSY	0930	SCRCH	0776	SECON	1797
SECT1	0497	SECT3	0498	SECT4	0499	SECTOR	0492	SEVEN	0079
SIX	0149	SLDIRY	1980	SMTSIM	1211	SNAPOL	1969	STDINP	0778
STRTPJ	1650	STRTUP	1641	SWAPT	0853	SYCFLG	1895	SYFAIL	0546
SYSDAY	0536	SYSID	0534	SYSMON	0535	SYSYER	0537	T1711	0899
T4212	1432	T4230	1431	T6167	1023	T6169	1024	T713	0898
T8562	1319	T8564	1320	TBLADR	1701	TEN	0151	THDS	1610
THREE	0078	TIMCPS	1819	TIMEC	1823	TIMEUP	1665	TMCODE	1664
TMRLVL	1835	TMRTYP	1664	TODLVL	1827	TOTMIN	1800	TSIPRC	1890
TWO	0115	U1711	0900	U17293	1494	U42312	1433	U731U0	1143
U731U1	1174	U73230	1053	U73231	1084	USE	1610	VOLA	0060
VOLBLK	0587	VOLEND	0588	VOLR	0059	X	1666	X1711	0661
X17293	0662	X42312	0664	X731U0	0665	X731U1	0666	X73230	0663
X73231	0667	YERTO	1792	ZERO	0112	ZROBIT	0131		



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*I,3

*V

*S,SYSYER,\$3830

*S,SYSMON,\$3038

*S,SYSDAY,\$3237

*S,SYSLVL,\$3332

*V

*V 1700 MASS STORAGE OPERATING SYSTEM - VER 5.0

*V

*V HOUSE II

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SYSTEM ORDINAL DEFINITIONS

*YM,LIBEDT,1

*YM,LOADSD,2

*YM,JOBENT,3

*YM,JOBPRO,4

*YM,PROTEC,5

*YM,JPLOAD,6

*YM,JPCHGE,7

*YM,JPT13,8

*YM,JCRDV4,9

*YM,JLGOV4,10

*YM,JPSTV4,11

*YM,NAHEV4,12

*YM,JPFLV4,13

*YM,AFILV4,14

*YM,RESTOR,15

*YM,RCOVER,16

*YM,BRKPT,17

*YM,ODEBUG,18

*YM,SYSCOP,19

*YM,SYSEGE,20

*YM,MIPRO,21

*YM,TDFUNC,22

*YM,EFSTOR,23

*YM,EFLIST,24

*YM,VERIFY,25

*YM,SCMM17,26

*YM,RDUMP,27

*YM,DTD,28

*YM,DITTO,29

*YM,DUMMY4,30

*YM,DUMMY5,31

*YM,DUMMY6,32

*YM,DUMMY7,33

*YM,DUMMY8,34

*YM,DUMMY9,35

*YM,DUMMY0,36

*YM,WDISK,37

*YM,P1DM38,38

*YM,P1DM39,39

*YM,P1DM40,40

*

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SYSTEM CONSTANTS (MEMORY)

*S,N4,\$200
*S,ENDOV4,\$7FFF
*S,BGNMON,\$8200
*S,MSIZV4,\$AFFF

END OF MEMORY

SYSTEM CONSTANTS (DISK)

*S,SECTOR,\$5BEA
*S,COBOPS,5950
*S,MTBFS0,5BFB
*S,MTBFED,7B00
*S,MTBFS1,7B01
*S,MTBFE1,9A00
*S,MTBFS2,9A01
*S,MTBFE2,\$B7F4

END OF SCRATCH
START SECTOR FOR SYSCOP IMAGE
START OF BUFFER, MAG TAPE SIMULATO
END OF BUFFER, MAG TAPE SIMULATO
START OF BUFFER, MAG TAPE SIMULATO
END OF BUFFER, MAG TAPE SIMULATO
START OF BUFFER, MAG TAPE SIMULATO
END OF BUFFER, MAG TAPE SIMULATO

*L SYSTEM DATA PROGRAM

SYSDAT 0000 HOUSE II WITH 200 WORDS PARTITIONED CORE

*L SPACE REQUEST PROCESSOR

SPACE 108E DECK-ID M29 MSOS 5.0 SUMMARY-122

SYSTEM CORE RESIDENT PROGRAMS

*LP MONITOR

NMONI 8200 DECK-ID M10 MSOS 5.0 SUMMARY-122
NDISP 824C DECK-ID M24 MSOS 5.0 SUMMARY-110
CPSET 8374 EMSD DUMMY ROUTINE FOR PSR 122*4823 PRF-704
RW 8378 DECK-ID M09 MSOS 5.0 SUMMARY-110
T14 8426 DECK-ID M26 MSOS 5.0 SUMMARY-110
T16 8437 DECK-ID M04 MSOS 5.0 SUMMARY-110
PARAME 8442 DECK-ID M03 MSOS 5.0 SUMMARY-110
COMMON 8483 DECK-ID M13 MSOS 5.0 SUMMARY-110
NIPROC 84DA DECK-ID M12 MSOS 5.0 SUMMARY-110
ALVOL 856C DECK-ID M16 MSOS 5.0 SUMMARY-110
OFVOL 8589 DECK-ID M15 MSOS 5.0 SUMMARY-110
ALCORE 8596 DECK-ID M17 MSOS 5.0 SUMMARY-110
DCORE 8644 DECK-ID M19 MSOS 5.0 SUMMARY-110
PRTCOR 87AD DECK-ID M18 MSOS 5.0 110/PRF-264
NFNR 89C8 DECK-ID M21 MSOS 5.0 SUMMARY-110
NCMPRQ 8A3D DECK-ID M20 MSOS 5.0 SUMMARY-110
MAKQ 8A6D DECK-ID M08 MSOS 5.0 SUMMARY-110
ADEV 8A9B DECK-ID M22 MSOS 5.0 SUMMARY-132
TMINT 8C0E DECK-ID M06 MSOS 5.0 SUMMARY-116
DTIMER 8CA0 DECK-ID M05 MSOS 5.0 SUMMARY-110
TOD 8CC2 DECK-ID M25 MSOS 5.0 SUMMARY-110
MINT 8D11 DECK-ID M07 MSOS 5.0 SUMMARY-116
TRVEC 8E3B DECK-ID M14 MSOS 5.0 SUMMARY-116

*LP DEBUGGING / CHECKOUT

SNAPOL 8E8E DECK-ID M02 MSOS 5.0 SUMMARY-110
DMP42X 8F47 DECK-ID B17 PERIPH. DRIVERS 1.0B SUMMARY-106
B17332 9016 DECK-ID B11 PERIPH. DRIVERS 1.0B 106/PRF-429

*LP CORE RESIDENT DRIVERS

EFDATA 9074 DECK-ID M27 MSOS 5.0 110/PRF-264
DUMMY 91DD DECK-ID M30 MSOS 5.0 SUMMARY-110

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ALAQ	9200	DECK-ID M28	MSOS 5.0	SUMMARY-110
D1711	926F	DECK-ID B27	PERIPH. DRIVERS 1.0B	SUMMARY-106
D17332	9417	DECK-ID B34	PERIPH. DRIVERS 1.0B	119/PRF-286
REWCK	96CB	DECK-ID B78	PERIPH. DRIVERS 1.0B	SUMMARY-106
DCOSY	96E6	DECK-ID M34	MSOS 5.0	114/PRF-190
D17323	99D3	DECK-ID B33	PERIPH. DRIVERS 1.0B	SPECIAL-119
D327TR	9E0F	DECK-ID B36	PERIPH. DRIVERS 1.0B	SUMMARY-106
D1731U	9F32	DECK-ID A32	PERIPH. DRIVERS 1.0A	SPECIAL-119
FRWA	A13F	DECK-ID A48	PERIPH. DRIVERS 1.0A	SUMMARY-106
FRWB	A20D	DECK-ID A49	PERIPH. DRIVERS 1.0A	SUMMARY-106
RWBA	A30A	DECK-ID A72	PERIPH. DRIVERS 1.0A	SUMMARY-106
MAXRVU	A38A	DECK-ID A53	PERIPH. DRIVERS 1.0A	SPECIAL-119
DMTSM	A4D3	DECK-ID M33	MSOS 5.0	110/PRF-264
D42312	A81A	DECK-ID B37	PERIPH. DRIVERS 1.0B	106/PRF-254
T5954	A9BB	DECK-ID B77	PERIPH. DRIVERS 1.0B	SUMMARY-112
D17293	AA4B	DECK-ID B31	PERIPH. DRIVERS 1.0B	SUMMARY-113
CR026	AC8A	DECK-ID B15	PERIPH. DRIVERS 1.0B	SUMMARY-106
MMEXC	ACAA	DECK-ID M01	MSOS 5.0	SUMMARY-132
NXTLOC	AE3D	NEXT AVAILABLE LOCATION		

Next location →

SYSTEM MASS RESIDENT PROGRAMS

*M	LIBEDT	LIBEDT	1		
	LIBEDT	01D6	DECK-ID M35	MSOS 5.0	113/PRF-264
	NXTLOC	1951	NEXT AVAILABLE LOCATION		
*M	LOADSD	LOADSD	2		
	LOAD1	021A	DECK-ID M36	MSOS 5.0	SUMMARY-110
	BRNCH1	0236	DECK-ID M37	MSOS 5.0	SUMMARY-110
	LIDRV1	0394	DECK-ID M38	MSOS 5.0	SUMMARY-110
	LCDRV1	03E5	DECK-ID M39	MSOS 5.0	SUMMARY-110
	LMDRV1	0412	DECK-ID M40	MSOS 5.0	SUMMARY-110
	LLDRV1	0431	DECK-ID M41	MSOS 5.0	SUMMARY-110
	ADJOF1	043F	DECK-ID M42	MSOS 5.0	SUMMARY-110
	CNVRT1	044B	DECK-ID M43	MSOS 5.0	SUMMARY-110
	LSTOT1	0463	DECK-ID M44	MSOS 5.0	SUMMARY-110
	LINK11	04B6	DECK-ID M45	MSOS 5.0	SUMMARY-110
	LOADR1	04F9	DECK-ID M46	MSOS 5.0	SUMMARY-116
	NAMPR1	0572	DECK-ID M47	MSOS 5.0	110/PRF-109
	RDBBZ1	061B	DECK-ID M48	MSOS 5.0	SUMMARY-110
	ENTEX1	0714	DECK-ID M49	MSOS 5.0	SUMMARY-110
	XFRPR1	074A	DECK-ID M50	MSOS 5.0	SUMMARY-110
	STBASE	075B	DECK-ID M51	MSOS 5.0	SUMMARY-110
	LNKENT	0843	DECK-ID M52	MSOS 5.0	SUMMARY-110
	LNKCR1	085F	DECK-ID M53	MSOS 5.0	110/PRF-475
	PATCH	08C3	DECK-ID M54	MSOS 5.0	SUMMARY-110
	TBSCH1	0905	DECK-ID M55	MSOS 5.0	SUMMARY-110
	HASH	094D	DECK-ID M56	MSOS 5.0	SUMMARY-110
	TBSTR1	0965	DECK-ID M57	MSOS 5.0	SUMMARY-110
	PAGE	098A	DECK-ID M58	MSOS 5.0	SUMMARY-110
	PROGLD	0AAA	DECK-ID M59	MSOS 5.0	SUMMARY-110
	SCAN1	0BAC	DECK-ID M60	MSOS 5.0	SUMMARY-110
	CHPU1	0C72	DECK-ID M61	MSOS 5.0	SUMMARY-110
	ADJOV2	0C7F	DECK-ID M62	MSOS 5.0	SUMMARY-110
	ADRPR1	0C98	DECK-ID M63	MSOS 5.0	SUMMARY-110

* * * U N P A T C H E D E X T E R N A L S * * *

PG2KRD

DATE 08/27/80

*M	JOBENT	3			
	JOBENT	0230	DECK-ID M64	MSOS 5.0	SUMMARY-116
	T11	0112	DECK-ID M65	MSOS 5.0	SUMMARY-110
	T7	0149	DECK-ID M66	MSOS 5.0	SUMMARY-110
	T5	0268	DECK-ID M67	MSOS 5.0	SUMMARY-110
	T3	0204	DECK-ID M68	MSOS 5.0	SUMMARY-110
	NXTLOC	02FB	NEXT AVAILABLE LOCATION		

*S,N1,P

*M	JOBPRO	4			
	JOBPRO	0245	DECK-ID M69	MSOS 5.0	SUMMARY-132
	ONE	0230	DECK-ID M70	MSOS 5.0	SUMMARY-110
	TWO	0240	DECK-ID M71	MSOS 5.0	SUMMARY-110
	THREE	0243	DECK-ID M72	MSOS 5.0	SUMMARY-110
	NXTLOC	0246	NEXT AVAILABLE LOCATION		

* * * U N P A T C H E D E X T E R N A L S * * *

BATLST

*S,N2,P

*M	PROTEC	5			
	UPROTK	024C	DECK-ID M73	MSOS 5.0	SUMMARY-115
	JBKILL	044C	DECK-ID M75	MSOS 5.0	SUMMARY-110
*M	JLOAD	6			
	JLOAD	0259	DECK-ID M76	MSOS 5.0	110/PRF-097
*M	JPCHGE	7			
	JPCHGE	025E	DECK-ID M77	MSOS 5.0	SUMMARY-110
	ASCHEX	013E	DECK-ID M78	MSOS 5.0	SUMMARY-110
*M	JPT13	8			
	T13	0263	DECK-ID M79	MSOS 5.0	SUMMARY-110
*M	JCRDV4	9			
	JCRDV4	0268	DECK-ID M80	MSOS 5.0	110/PRF-264
*M	JLGOV4	10			
	JLGOV4	026C	DECK-ID M81	MSOS 5.0	SUMMARY-110
*M	JPSTV4	11			
	JPSTV4	026F	DECK-ID M84	MSOS 5.0	SUMMARY-110
*M	NAMEV4	12			
	NAMEV4	0271	DECK-ID M85	MSOS 5.0	SUMMARY-110
*M	JPFLV4	13			
	JPFLV4	0279	DECK-ID M82	MSOS 5.0	SUMMARY-110
*M	AFILV4	14			
	JPF2V4	0280	DECK-ID M83	MSOS 5.0	SUMMARY-110
*M	RESTOR	15			
	RESTOR	028A	DECK-ID M86	MSOS 5.0	SUMMARY-114
*M	RCOVER	16			
	RCOVER	028D	DECK-ID M87	MSOS 5.0	SUMMARY-110
	OUTSEL	0144	DECK-ID M88	MSOS 5.0	SUMMARY-110
	RDMPV4	0189	DECK-ID M89	MSOS 5.0	SUMMARY-110
	MASDMP	0249	DECK-ID M90	MSOS 5.0	SUMMARY-110
*M	BRKPT	17			
	BRKPT1	0296	DECK-ID N01	MSOS 5.0	SUMMARY-110
*M	ODEBUG	18			
	ODEBUG1	02A3	DECK-ID N07	MSOS 5.0	116/PRF-293
	GETREQ	0120	DECK-ID N08	MSOS 5.0	110/PRF-293
	LHXREQ	02A0	DECK-ID N09	MSOS 5.0	SUMMARY-110
	DPCREQ	0360	DECK-ID N10	MSOS 5.0	SUMMARY-110
	SCNREQ	0420	DECK-ID N11	MSOS 5.0	SUMMARY-116
	SETREQ	04E0	DECK-ID N12	MSOS 5.0	SUMMARY-110
	MBCREQ	0540	DECK-ID N13	MSOS 5.0	SUMMARY-110

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SCHREQ	0600	DECK-ID N14	MSOS	5.0	SUMMARY-116
SPEREQ	06C0	DECK-ID N15	MSOS	5.0	SUMMARY-113
CPPREQ	0720	DECK-ID N16	MSOS	5.0	SUMMARY-110
SPPREQ	0780	DECK-ID N17	MSOS	5.0	SUMMARY-110
ADHREQ	07E0	DECK-ID N18	MSOS	5.0	SUMMARY-110
SBHREQ	0840	DECK-ID N19	MSOS	5.0	SUMMARY-110
ALCREQ	08A0	DECK-ID N20	MSOS	5.0	SUMMARY-116
RELREQ	0960	DECK-ID N21	MSOS	5.0	SUMMARY-110
DACREQ	09C0	DECK-ID N22	MSOS	5.0	SUMMARY-116
PTHREQ	0AE0	DECK-ID N23	MSOS	5.0	SUMMARY-116
MTRREQ	0C00	DECK-ID N24	MSOS	5.0	SUMMARY-116
MSDREQ	0C60	DECK-ID N25	MSOS	5.0	SUMMARY-116
CLUREQ	0D20	DECK-ID N26	MSOS	5.0	110/PRF-360
WCDREQ	0D80	DECK-ID N27	MSOS	5.0	SUMMARY-116
LASREQ	0DE0	DECK-ID N28	MSOS	5.0	SUMMARY-110
DASREQ	0F00	DECK-ID N29	MSOS	5.0	SUMMARY-116
MLUREQ	0FC0	DECK-ID N30	MSOS	5.0	110/PRF-360
OPTREQ	1020	DECK-ID N31	MSOS	5.0	SUMMARY-116
SLDREQ	10E0	DECK-ID N32	MSOS	5.0	SUMMARY-116
CWAREQ	1140	DECK-ID N33	MSOS	5.0	SUMMARY-116
DMHREQ	1260	DECK-ID N34	MSOS	5.0	SUMMARY-116
SMNREQ	1320	DECK-ID N35	MSOS	5.0	SUMMARY-116
SMPREQ	14A0	DECK-ID N36	MSOS	5.0	SUMMARY-116
LSPREQ	1560	DECK-ID N37	MSOS	5.0	SUMMARY-116
DSPREQ	1620	DECK-ID N38	MSOS	5.0	SUMMARY-116
DMSREQ	1740	DECK-ID N39	MSOS	5.0	116/PRF-121
LSOREQ	18C0	DECK-ID N40	MSOS	5.0	SUMMARY-116
CCCREQ	19E0	DECK-ID N41	MSOS	5.0	SUMMARY-116
CCMREQ	1B00	DECK-ID N42	MSOS	5.0	SUMMARY-116
CMHREQ	1C20	DECK-ID N43	MSOS	5.0	SUMMARY-116
MMMREQ	1D40	DECK-ID N44	MSOS	5.0	SUMMARY-116
LICREQ	1EC0	DECK-ID N45	MSOS	5.0	SUMMARY-118
LIOREQ	2040	DECK-ID N46	MSOS	5.0	SUMMARY-116
LAMREQ	21C0	DECK-ID N47	MSOS	5.0	SUMMARY-116
DDPREQ	22E0	DECK-ID N48	MSOS	5.0	SUMMARY-116
LDPREQ	2400	DECK-ID N49	MSOS	5.0	SUMMARY-116
LDOREQ	2520	DECK-ID N50	MSOS	5.0	SUMMARY-116
DMDREQ	26A0	DECK-ID N51	MSOS	5.0	SUMMARY-116
WDKREQ	2820	DECK-ID N52	MSOS	5.0	SUMMARY-116
LSTREQ	2940	DECK-ID N53	MSOS	5.0	116/PRF-293
PRINT	2AC0	DECK-ID N54	MSOS	5.0	SUMMARY-116
GETFLD	2B80	DECK-ID N55	MSOS	5.0	110/PRF-293
ASHX	2C40	DECK-ID N56	MSOS	5.0	SUMMARY-110
DMPBUF	2CA0	DECK-ID N57	MSOS	5.0	SUMMARY-116
ASCDEC	2D60	DECK-ID N58	MSOS	5.0	SUMMARY-110
HXAS	2DC0	DECK-ID N59	MSOS	5.0	SUMMARY-110
DECDMP	2E20	DECK-ID N60	MSOS	5.0	SUMMARY-116
FETMM	2EE0	DECK-ID N61	MSOS	5.0	116/PRF-066
PNTMD	3000	DECK-ID N62	MSOS	5.0	SUMMARY-116
MASOT	30C0	DECK-ID N63	MSOS	5.0	SUMMARY-116
CONFM	31E0	DECK-ID N64	MSOS	5.0	SUMMARY-116
GETINT	3300	DECK-ID N65	MSOS	5.0	SUMMARY-116
FLCVSG	33C0	DECK-ID N66	MSOS	5.0	SUMMARY-116
FLCVDB	34E0	DECK-ID N67	MSOS	5.0	SUMMARY-116
NAMEMS	3600	DECK-ID N68	MSOS	5.0	110/PRF-293
DCONV	3B40	DECK-ID N69	MSOS	5.0	SUMMARY-110

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	LAZY2	3C60	DECK-ID N70	MSOS 5.0	SUMMARY-110
	ODDFLT	3D20	DECK-ID N71	MSOS 5.0	SUMMARY-110
	ODDFTN	3DE0	DECK-ID N72	MSOS 5.0	SUMMARY-110
	ECONV	41A0	DECK-ID N73	MSOS 5.0	110/PRF-100
	LAZY1	42C0	DECK-ID N74	MSOS 5.0	SUMMARY-110
	ODFLOT	4380	DECK-ID N75	MSOS 5.0	SUMMARY-110
	ODFXFL	45C0	DECK-ID N76	MSOS 5.0	SUMMARY-110
	FETCA	4680	EMSD GET AND CHECK 40-115 ADDRESS		PRF-293
	MASCA	4740	EMSD PRINT 40-115 MEMORY		PRF-293
	MCAREQ	4860	EMSD PROCESS 40-115 MODIFY REQUESTS		PRF-293
	DCHREQ	4980	EMSD PROCESS 40-115 DUMP REQUESTS		PRF-293
	CIUREQ	4AA0	EMSD CHANGE INPUT UNIT FOR ODEBUG		PRF-293
	EQSNAM	4B00	EMSD PROCESS '=NAME' FOR ODEBUG		PRF-293
	NXTLOC	4C20	NEXT AVAILABLE LOCATION		
*M		SYSCOP	19		
	SYSCOP	036E	DECK-ID N77	MSOS 5.0	110/PRF-408
	NXTLOC	01CB	NEXT AVAILABLE LOCATION		
*M		SYSSEG	20		
	CO1ST	0373	DECK-ID N78	MSOS 5.0	110/PRF-042
	CO2ND	04E0	DECK-ID N79	MSOS 5.0	110/PRF-042
	CO3RD	0D80	DECK-ID N80	MSOS 5.0	110/PRF-042
	COLAST	1500	DECK-ID N81	MSOS 5.0	SUMMARY-110
*M		HIPRO	21		
	HIPRO	03AC	DECK-ID N06	MSOS 5.0	SUMMARY-110
	* * * U N P A T C H E D E X T E R N A L S * * *				
	INDACS				
	CRIMPT				
	TSUTIL				
*M		TDFUNC	22		
	TDFUNC	03B3	DECK-ID 067	MSOS 5.0	SUMMARY-110
*M		EFSTOR	23		
	EFSTOR	03B7	DECK-ID N04	MSOS 5.0	110/PRF-120
*M		EFLIST	24		
	EFLIST	03BC	DECK-ID N05	MSOS 5.0	123/PRF-120
	TYPTBL	026C	EMSD EQUIPMENT TYPES INDEX TABLE		PRF-120
	TYPTB1	02EC	EMSD NAMES FOR TYPES 0-42 (MSOS)		PRF-120
	TYPTB2	0564	EMSD NAMES FOR TYPES 43-52 (OPTIONAL)		PRF-120
	TYPTB3	05A0	EMSD NAMES FOR TYPES 53-61 (MSOS)		PRF-120
	TYPTB4	0613	EMSD NAMES FOR TYPES 62-99 (OPTIONAL)		PRF-120
	TYPTB5	06F7	EMSD NAMES FOR TYPES 100-127 (EMSD)		PRF-120
	NXTLOC	0842	NEXT AVAILABLE LOCATION		
*M		VERIFY	25		
	VERFY1	03D3	DECK-ID 024	MSOS 5.0	SUMMARY-110
*M		SCMH17	26		
	SCHEXC	03D8	DECK-ID 054	MSOS 5.0	SUMMARY-117
*M		RDUMP	27		
	RDUMP	03E8	EMSD DUMP THE FAILED CORE IMAGE		PRF-763
	LCHAR	0252	EMSD LOAD CHARACTER SUBROUTINE		PRF-657
	SCHAR	026B	EMSD STORE CHARACTER SUBROUTINE		PRF-657
*M		DTO	28		
	DTO	03EF	ATF00006 DISK TO DISK COPY		07/27/76
*M		DITTO	29		
	DITTO	042F	EMSD FOREGROUND XFER UTILITY 09/78		
*M		DUMMY4	30		
*M		DUMMY5	31		
*M		DUMMY6	32		

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*M DUMMY7 33
*M DUMMY8 34
*M DUMMY9 35
*M DUMMY0 36

*M 1742-30/120 LINE PRINTER
D42312 0437 DECK-ID B37 PERIPH. DRIVERS 1.08 106/PRF-254
T5954 01A1 DECK-ID B77 PERIPH. DRIVERS 1.08 SUMMARY-112

*

*T END OF SYSTEM

* * * U N P A T C H E D E X T E R N A L S * * *

LBPROT
UBPROT
LOBDTB
UPBDTB
CCP
CCP
POWERU
PARITY
DIP
TSCNMI
CCP
TSCNAC
SIM200
CHKSEC



S2)W=

R

JOB, INSTAL, SYSTEM

1700 MASS STORAGE OPERATING SYSTEM VERSION 5.0

DATE OF RUN: 08/27/80

SYSTEM ID: HOUSE II

(08/27/80)

IIIIIIIIIIII	NNN	NNN	SSSSSSSSSS	TTTTTTTTTTTT	AAAAAAAAAA	LLL
IIIIIIIIIIII	NNN	NNN	SSSSSSSSSS	TTTTTTTTTTTT	AAAAAAAAAA	LLL
IIIIIIIIIIII	NNN	NNN	SSSSSSSSSS	TTTTTTTTTTTT	AAAAAAAAAA	LLL
III	NNNN	NNN	SSS SSS	TTT	AAA AAA	LLL
III	NNNN	NNN	SSS	TTT	AAA AAA	LLL
III	NNNN	NNN	SSS	TTT	AAA AAA	LLL
III	NNN NNN	NNN	SSSSSSSSSS	TTT	AAAAAAAAAA	LLL
III	NNN NNN	NNN	SSSSSSSSSS	TTT	AAAAAAAAAA	LLL
III	NNN NNN	NNN	SSSSSSSSSS	TTT	AAAAAAAAAA	LLL
III	NNN NNNN		SSS	TTT	AAA AAA	LLL
III	NNN NNNN		SSS SSS	TTT	AAA AAA	LLL
III	NNN NNNN		SSS SSS	TTT	AAA AAA	LLL
IIIIIIIIIIII	NNN	NNN	SSSSSSSSSS	TTT	AAA AAA	LLLLLLLLLLLL
IIIIIIIIIIII	NNN	NNN	SSSSSSSSSS	TTT	AAA AAA	LLLLLLLLLLLL
IIIIIIIIIIII	NNN	NNN	SSSSSSSSSS	TTT	AAA AAA	LLLLLLLLLLLL

*K,110
*K,16
*LIBEDT
LJB
IN
*K,110
IN
*K,16
IN
*V DEFINE REQUEST PRIORITIES
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*S,001,03,M
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*S,002,00,M
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*S,003,01,M
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IN
*S,005,03,M
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*S,006,02,M
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*S,038,04,M
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*S,039,04,M
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*S,040,04,M
IN

IN

*Z

*CTO,REQUEST PRIORITIES DEFINED

*CTO,PART 1 PROGRAMS INSTALLED

*CTO, MOUNT PROGRAM LIB INSTALL TAPE ON LU 6

*CTO, HIT M1, TYPE *BATCH HIT CR

*Z

R

JOB,PGMLIB,INSTAL

PPPPPPPPPP	GGGGGGGGGG	MMM	MMN	LLL	IIIIIIIIII	BBBBBBB
PPPPPPPPPP	GGGGGGGGGG	MMM	MMM	LLL	IIIIIIIIII	BBBBBBB
PPPPPPPPPP	GGGGGGGGGG	MMMM	MMMM	LLL	IIIIIIIIII	BBBBBBB
PPP	GGG	MMMMM	MMMMM	LLL	III	BBB
PPP	GGG	MMM	MMMM	MMM	III	BBB
PPP	GGG	MMM	MM	MMM	III	BBB
PPPPPPPPPP	GGG	MMM	M	MMM	III	BBBBBBB
PPPPPPPPPP	GGG	MMM		MMM	III	BBBBBBB
PPPPPPPPPP	GGG	MMM	MMM	LLL	III	BBBBBBB
PPP	GGG	MMM	MMM	LLL	III	BBB
PPP	GGG	MMM	MMM	LLL	III	BBB
PPP	GGG	MMM	MMM	LLL	III	BBB
PPP	GGG	MMM	MMM	LLL	III	BBB
PPP	GGGGGGGGGG	MMM	MMM	LLL.LLLLLLLLLL	IIIIIIIIII	BBBBBBB
PPP	GGGGGGGGGG	MMM	MMM	LLLLLLLLLLLLL	IIIIIIIIII	BBBBBBB
PPP	GGGGGGGGGG	MMM	MMM	LLLLLLLLLLLLL	IIIIIIIIII	BBBBBBB

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*K, I6
*LIBEDT
LIB
IN
*K, I6
IN
*V 1700 MACRO ASSEMBLER 3.
IN
*K, I6
IN
*L, LIBMAC
IN
*L, ASSEM
IN
*K, P8
IN
*P, F
PASS1 1CB6 DECK-ID A02 MACRO ASSEMBLER 110/PRF1375
PA1PR2 216A DECK-ID A03 MACRO ASSEMBLER 120/PRF1375
NXTLOC 291B NEXT AVAILABLE LOCATION
IN
*K, IR
IN
*N, PASS1, , , B
IN
*K, I6
IN
*K, PR
IN
*P, F
PASS2 1CB6 DECK-ID A04 MACRO ASSEMBLER 110/PRF1375
PA2PR2 2192 DECK-ID A05 MACRO ASSEMBLER 120/PRF1375
NXTLOC 2671 NEXT AVAILABLE LOCATION
IN
*K, IR
IN
*N, PASS2, , , B
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*K, I6
IN
*K, PR
IN
*P, F
PASS3 1CB6 DECK-ID A06 MACRO ASSEMBLER 110/PRF1375
PA3PR2 2159 DECK-ID A07 MACRO ASSEMBLER 120/PRF1375
PA3PR3 2597 DECK-ID A08 MACRO ASSEMBLER 110/PRF1375
NXTLOC 2A6C NEXT AVAILABLE LOCATION

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IN
*K,18
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*N,PASS3,,B
IN
*K,16
IN
*K,P8
IN
*P,F
  TABLST 1CB6 DECK-ID A09 MACRO ASSEMBLER 110/PRF1375
  *XTLOC 243A NEXT AVAILABLE LOCATION
IN
*K,18
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*N,TABLST,,R
IN
*K,16
IN
*K,P8
IN
*P,F
  XREF 1CB6 DECK-ID A10 MACRO ASSEMBLER 110/PRF1375
IN
*K,18
IN
*N,XREF,,B
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*K,16
IN
*N,MACSKL,,B
IN
*N,MACROS,,B
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*V
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*V INSTALL FTM 3.3 RU
IN
*V
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*K,16
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*L,ORPREP
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*L,OROF2I
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*L,ABS
IN
*L,SQRT
IN
*L,SIGN
IN
*L,FLOAT
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IN
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*L,TANH
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*L,PARABS
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*L,QRIFRM
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*L,QRFS
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*L,QRTRAN
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*L,QRQINI
IN
*L,QRQEND
IN
*L,QRCMPO
IN
*L,QRWBU
IN
*L,QRFRM
IN
*L,QRDFMF
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*L,QROX
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*L,QROUND
IN
*L,QRFGET
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*L,QRMAGT
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*L,QRPAND
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*L,QREXP1
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*L,QREXP9
IN
*L,SETBFR

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*L,IGETCH
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*L,IPACK
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*L,SPACEX
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*L,DCHX
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*L,HXASC
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IN
*L,RFRMOT
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*L,AFRMIN
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*L,RFRMIN
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*L,ASCHX
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*L,HXDC
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*L,FOUT
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*L,EOUT
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*L,EWRITE
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*L,FORMTR
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*L,QPROFI
IN
*L,QPROFL
IN
*L,QPROFX

IN
*L,HEXASC
IN
*L,HEXDEC
IN
*L,ASCII
IN
*L,DECHEX
IN
*L,AFORM
IN
*L,RFORM
IN
*L,FLOATG
IN
*L,FLOT
IN
*L,OPERND
IN
*L,OPDXP1
IN
*V DEBUGGING AND CHECKOUT
IN
*K,I6
IN
*L,TRACE
IN
*K,I6
IN
*K,P8
IN
*P,F

SETBR1	1CB6	DECK-ID M91	MSOS 5.0	SUMMARY-110
IN				
*K,I8				
IN				
*N,BPST,,,B				
IN				
*K,I6				
IN				
*K,PR				
IN				
*P,F				
TERMI1	1CB6	DECK-ID M92	MSOS 5.0	SUMMARY-110
IN				
*K,I8				
IN				
*N,BPCLR,,,B				
IN				
*K,I6				
IN				
*K,PR				
IN				
*P,F				
ENTC01	1CB6	DECK-ID M93	MSOS 5.0	SUMMARY-110
IN				
*K,I8				
IN				
*N,BPLOAD,,,R				
IN				
*K,I6				
IN				
*K,PR				
IN				
*P,F				
RESUM1	1CB6	DECK-ID M94	MSOS 5.0	SUMMARY-110
IN				
*K,I8				
IN				
*N,BPEND,,,B				
IN				
*K,I6				
IN				
*K,PR				
IN				
*P,F				

PRTRE1 1CB6 DECK-ID M95 MSOS 5.0 SUMMARY-110
IN
*K,I8
IN
*N,BPRLST,,,B
IN
*K,I6
IN
*K,PR
IN
*P,F

SETAQ1 1CB6 DECK-ID M96 MSOS 5.0 SUMMARY-110
IN
*K,I8
IN
*N,BPRSET,,,B
IN
*K,I6
IN
*K,PR
IN
*P,F

CORPM1 1CB6 DECK-ID M97 MSOS 5.0 SUMMARY-110
IN
*K,I8
IN
*N,BPDMPC,,,B
IN
*K,I6
IN
*K,PR
IN
*P,F

JUMPR1 1CB6 DECK-ID M98 MSOS 5.0 SUMMARY-110
IN
*K,I8
IN
*N,BPJMP,,,B
IN
*K,I6
IN
*K,PR
IN
*P,F

LUCHG1 1CB6 DECK-ID M99 MSOS 5.0 SUMMARY-110

IN

*K,IR

IN

*N,RPRPLU,,,B

IN

*K,I6

IN

*K,P8

IN

*P,F

BPTAP1 1CB6 DECK-ID N02 MSOS 5.0 SUMMARY-110

IN

*K,IR

IN

*N,BPTAPC,,,B

IN

*K,I6

IN

*K,PR

IN

*P,F

MASDM1 1CB6 DECK-ID N03 MSOS 5.0 SUMMARY-110

IN

*K,IR

IN

*N,RPMASS,,,B

IN

*V SYSTEM UTILITY PROGRAMS

IN

*K,I6

IN

*L,LULIST

IN

*K,PR

IN

*P,F,,LULPGM

LULOD	1CB6	EMSD LULIST LOADER	PRF-120
LULIST	1CC5	DECK-ID N87 MSOS 5.0	123/PRF-120
TYPTRL	1E38	EMSD EQUIPMENT TYPES INDEX TABLE	PRF-120
TYPTB1	1EB8	EMSD NAMES FOR TYPES 0-42 (MSOS)	PRF-120
TYPTB2	2130	EMSD NAMES FOR TYPES 43-52 (OPTIONAL)	PRF-120
TYPTB3	216C	EMSD NAMES FOR TYPES 53-61 (MSOS)	PRF-120
TYPTB4	21DF	EMSD NAMES FOR TYPES 62-99 (OPTIONAL)	PRF-120
TYPTR5	22C3	EMSD NAMES FOR TYPES 100-127 (EMSD)	PRF-120

IN

*K,IP

IN

*N,LULFIL,,,R

IN

*K,I6

IN

*L,LISTR

IN

*L,OPSORT

IN

*L,EESORT

IN

*L,COSY

IN

*L,LCOSY

IN

*L,CYFT

IN

*L,IOUP

IN

*K,PR

IN

*P,F

IOUP	1CB6	DECK-ID N82 MSOS 5.0	SUMMARY-110
IOUPV4	1CCR	DECK-ID NR3 MSOS 5.0	SUMMARY-113
NXTLOC	2771	NEXT AVAILABLE LOCATION	

IN

*K,IP

IN

*N,IOUPV4,,,R

IN

*K,I6

IN

*K,PR

IN

*L,MTUP

IN

*P,F,,TAPUTL

MTUP	1CR6	DECK-ID U01	MAG TAPE UTILITY	SUMMARY-106
TAPUTL	1CD1	DECK-ID U02	MAG TAPE UTILITY	SUMMARY-106
FNN	1EC7	DECK-ID U03	MAG TAPE UTILITY	SUMMARY-106
SCAN	1F74	DECK-ID U04	MAG TAPE UTILITY	SUMMARY-106
OPENIO	2074	DECK-ID U05	MAG TAPE UTILITY	SUMMARY-106
RDWTR	229A	DECK-ID U06	MAG TAPE UTILITY	SUMMARY-106
LIOC	232D	DECK-ID U07	MAG TAPE UTILITY	SUMMARY-106
COPY	2423	DECK-ID U08	MAG TAPE UTILITY	SUMMARY-106
EXIT	245F	DECK-ID U09	MAG TAPE UTILITY	SUMMARY-106
PRINT	2486	DECK-ID U10	MAG TAPE UTILITY	SUMMARY-106
VERIFY	2622	DECK-ID U11	MAG TAPE UTILITY	SUMMARY-106
SELECT	273C	DECK-ID U12	MAG TAPE UTILITY	SUMMARY-106
PRINTI	289F	DECK-ID U13	MAG TAPE UTILITY	SUMMARY-106
DUMP	2915	DECK-ID U14	MAG TAPE UTILITY	SUMMARY-106
INIT	2AF4	DECK-ID U15	MAG TAPE UTILITY	SUMMARY-106
STNLAB	2B90	DECK-ID U16	MAG TAPE UTILITY	SUMMARY-106
CVASEB	2F20	DECK-ID U19	MAG TAPE UTILITY	SUMMARY-110
ALCBUF	3032	DECK-ID U18	MAG TAPE UTILITY	SUMMARY-106
NXTLOC	30A0	NEXT AVAILABLE LOCATION		

IN

*K,I8

IN

*N,MTUPFL,,,B

IN

*K,I6

IN

*L,DTLP

IN

*K,PR

IN

*P,F

DSKTAP	1CR6	DECK-ID N90	MSOS 5.0	SUMMARY-122
DSKEQC	1F3F	DECK-ID N91	MSOS 5.0	SUMMARY-110
DSKDHX	1FRD	DECK-ID 068	MSOS 5.0	SUMMARY-110
DSKCDR	2062	DECK-ID B39	PERIPH. DRIVERS 1.0B	SUMMARY-106
DSKMTI	2108	DECK-ID B42	PERIPH. DRIVERS 1.0B	SUMMARY-106
DSKMT0	21FD	DECK-ID B43	PERIPH. DRIVERS 1.0B	SUMMARY-106
MDRV56	2295	DECK-ID B46	PERIPH. DRIVERS 1.0B	SUMMARY-113
NXTLOC	237A	NEXT AVAILABLE LOCATION		

IN

*K,I8

IN

*N,DSKTAP,,,B

IN

*K,I6

IN

*L,SETPV4

IN

*K,PR

IN

*P,F

SPOLY1 1CB6 DECK-ID N93 MSOS 5.0
STPV4 1CD0 DECK-ID N94 MSOS 5.0
IERROR 1D2C DECK-ID N95 MSOS 5.0
MCTDK 1D7F DECK-ID N96 MSOS 5.0
GETPAG 1D8F DECK-ID N97 MSOS 5.0
CONPRT 1D9E DECK-ID N98 MSOS 5.0
REDCON 1DE1 DECK-ID N99 MSOS 5.0
CONDEC 1E39 DECK-ID 001 MSOS 5.0
ORDERM 1FDA DECK-ID 002 MSOS 5.0
IREAD 2275 DECK-ID 003 MSOS 5.0
ASCOUT 230B DECK-ID 004 MSOS 5.0
PARAMS 233R DECK-ID 005 MSOS 5.0
DISKIO 2344 DECK-ID 006 MSOS 5.0
NXTLOC 236F NEXT AVAILABLE LOCATION

SUMMARY-110
SUMMARY-110
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SUMMARY-110
SUMMARY-110
SUMMARY-110
SUMMARY-110
SUMMARY-110
SUMMARY-110
SUMMARY-110
SUMMARY-110
SUMMARY-110
SUMMARY-110

IN
*K,IR
IN
*N,STPV4,,,B
IN
*K,I6
IN
*K,PR
IN
*P,F

SPOLY2 1CB6 DECK-ID 007 MSOS 5.0
SUP 1CC8 DECK-ID 008 MSOS 5.0
IERROR 1FAC DECK-ID N95 MSOS 5.0
GETPAG 1FFF DECK-ID N97 MSOS 5.0
BTOA 200E DECK-ID 009 MSOS 5.0
ISTAT 2065 DECK-ID 010 MSOS 5.0
SCIO 2099 DECK-ID 011 MSOS 5.0
SCRD 20A8 DECK-ID 012 MSOS 5.0
REDCON 20B7 DECK-ID N99 MSOS 5.0
ICAT 210F DECK-ID 013 MSOS 5.0
BUFIN 222B DECK-ID 014 MSOS 5.0
MOVE 2305 DECK-ID 015 MSOS 5.0
IREAD 246E DECK-ID 003 MSOS 5.0
ASCOUT 2504 DECK-ID 004 MSOS 5.0
PARAMS 2531 DECK-ID 005 MSOS 5.0
DISKIO 253D DECK-ID 006 MSOS 5.0
NXTLOC 256R NEXT AVAILABLE LOCATION

SUMMARY-110
SUMMARY-110
SUMMARY-110
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SUMMARY-110
SUMMARY-110
SUMMARY-110
SUMMARY-110
SUMMARY-110
SUMMARY-110
SUMMARY-110
SUMMARY-110
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SUMMARY-110
SUMMARY-110
SUMMARY-110

IN
*K,IR
IN
*N,STP2V4,,,B
IN
*V SCMM TEST ROUTINES
IN
*K,I6
IN
*K,PR
IN
*P,F

SCMTTY 1CB6 DECK-ID B75 PERIPH. DRIVERS 1.0B SUMMARY-106

IN

*K,I8

IN

*N,SCMTTY,,,B

IN

*K,I6

IN

*K,PR

IN

*P,F

SCMCRD 1CB6 DECK-ID B64 PERIPH. DRIVERS 1.0B SUMMARY-106

IN

*K,I8

IN

*N,SCMCRD,,,B

IN

*K,I6

IN

*K,PR

IN

*P,F

SCMCD1 1CB6 DECK-ID B62 PERIPH. DRIVERS 1.0B SUMMARY-117

IN

*K,I8

IN

*N,SCMCD1,,,B

IN

*K,I6

IN

*K,PR

IN

*P,F

SCMCD2 1CB6 DECK-ID B63 PERIPH. DRIVERS 1.0B SUMMARY-117

IN

*K,I8

IN

*N,SCMCD2,,,B

IN

*K,I6

IN

*K,PR

IN

*P,F

SCMPRT 1CB6 DECK-ID B70 PERIPH. DRIVERS 1.0B SUMMARY-106

IN

*K,I8

IN

*N,SCMPRT,,,B

IN

*K,I6

IN

*K,PR

IN

*P,F

SCMMTT 1CB6 DECK-ID B68 PERIPH. DRIVERS 1.0B SUMMARY-117

IN

*K,IR

IN

*N,SCMMTT,,,B

IN

*V INSTALL LIBRARY BUILDER

IN

*K,I6

IN

*L,LIBILD

IN

*K,PR

IN

*P,F

LIBIDO	1CB6	DECK-ID 030	MSOS 5.0	SUMMARY-110
CONVRS	1CD3	DECK-ID 038	MSOS 5.0	SUMMARY-110
MESSY	1F4R	DECK-ID 031	MSOS 5.0	SUMMARY-110
LJA2B	1FC1	DECK-ID 037	MSOS 5.0	SUMMARY-110
MOVECH	200E	DECK-ID 032	MSOS 5.0	SUMMARY-110
PICKUP	205F	DECK-ID 033	MSOS 5.0	SUMMARY-110
IOSUB	207R	DECK-ID 034	MSOS 5.0	SUMMARY-110
NXTLOC	209C	NEXT AVAILABLE LOCATION		

IN

*K,IR

IN

*N,LIBIDO,,,B

IN

*K,I6

IN

*K,PR

IN

*P,F

HELPER	1CB6	DECK-ID 035	MSOS 5.0	PRF-646
MOVECH	1FA4	DECK-ID 032	MSOS 5.0	SUMMARY-110
HELPO	1FF5	DECK-ID 039	MSOS 5.0	123/PRF-307
HELP1	261E	DECK-ID 040	MSOS 5.0	SUMMARY-110
HELP2	2671	DECK-ID 041	MSOS 5.0	SUMMARY-110
HELP3	26B8	DECK-ID 042	MSOS 5.0	SUMMARY-110
HELP4	2714	DECK-ID 043	MSOS 5.0	PRF-646
HELP5	29B1	DECK-ID 044	MSOS 5.0	SUMMARY-110
HELP6	2B4A	EMSD BINARY VERIFIER		PRF-646
HELPR	2C46	DECK-ID 045	MSOS 5.0	SUMMARY-110
HELP9	2D50	DECK-ID 046	MSOS 5.0	SUMMARY-110
HELP10	2E0F	DECK-ID 047	MSOS 5.0	SUMMARY-117
HELP11	2E85	DECK-ID 048	MSOS 5.0	SUMMARY-110
HELP12	2ED5	DECK-ID 049	MSOS 5.0	PRF-646
HELP13	30D4	DECK-ID 050	MSOS 5.0	SUMMARY-110
HELP14	3136	DECK-ID 036	MSOS 5.0	SUMMARY-117
NXTLOC	3143	NEXT AVAILABLE LOCATION		

IN

*K,IR

IN

*N,HELPER,,,B

IN

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*V INSTALL SKELETON EDITOR
IN
*K,16
IN
*L,SKED
IN
*K,PR
IN
*P,F
  SKFILE 1CB6 DECK-ID 052 MSOS 5.0 SUMMARY-110
  NXTLOC 2D41 NEXT AVAILABLE LOCATION
IN
*K,IR
IN
*N,SKFILE,,,B
IN
*V SYSTEM INITIALIZER
IN
*K,16
IN
*L,SILP
IN
*K,PR
IN
*P,F
  CONTRL 1CB6 DECK-ID 017 MSOS 5.0 117/PRF1306
  ILOAD 26BF DECK-ID 018 MSOS 5.0 110/PRF-979
  LDRTBL 2D5F DECK-ID 019 MSOS 5.0 SUMMARY-113
  I1 2F7D DECK-ID 020 MSOS 5.0 SUMMARY-110
  I2 31P3 DECK-ID 021 MSOS 5.0 110/PRF-075
  JDRIV 31A5 DECK-ID 023 MSOS 5.0 SUMMARY-110
  MDRIV 3219 DECK-ID 022 MSOS 5.0 SUMMARY-110
  QMT7TK 3221 DECK-ID B52 PERIPH. DRIVERS 1.0B 106/PRF-172
  Q42312 3353 DECK-ID B59 PERIPH. DRIVERS 1.0B SUMMARY-106
  T5054 33CE DECK-ID B77 PERIPH. DRIVERS 1.0B SUMMARY-112
  01711 345E DECK-ID B57 PERIPH. DRIVERS 1.0B SUMMARY-106
  017332 3528 DECK-ID B58 PERIPH. DRIVERS 1.0B 113/PRF-259
  QCDDMY 364F DECK-ID B48 PERIPH. DRIVERS 1.0B SUMMARY-106
  OPTDMY 3651 DECK-ID B56 PERIPH. DRIVERS 1.0B SUMMARY-106
  NXTLOC 3653 NEXT AVAILABLE LOCATION
IN
*K,IP
IN
*N,SI,,,B
IN
*V MISC
IN
*K,16
IN
*L,DCKIH
IN
*K,16

```

IN
*L,EESRTM

IN
*K,P8

IN
*P,F,,EESRT

EESRTM	1CB6	ENTRY POINT CROSS REF LOADER	03/03/78
EESRT	1CC5	ENTRY POINT/EXT CROSS REF	03/03/78
READ	1CC7	PROGRAM TO READ + PROCESS	08/01/76
PRINT	1EA2	PRINTING MODULE	03/08/78
ERROR	2084	ERROR PROCESSING	PRF-680
ENTRPT	21A7	ENTRY POINT LIST INITIALIZER	03/08/78

IN
*K,I8

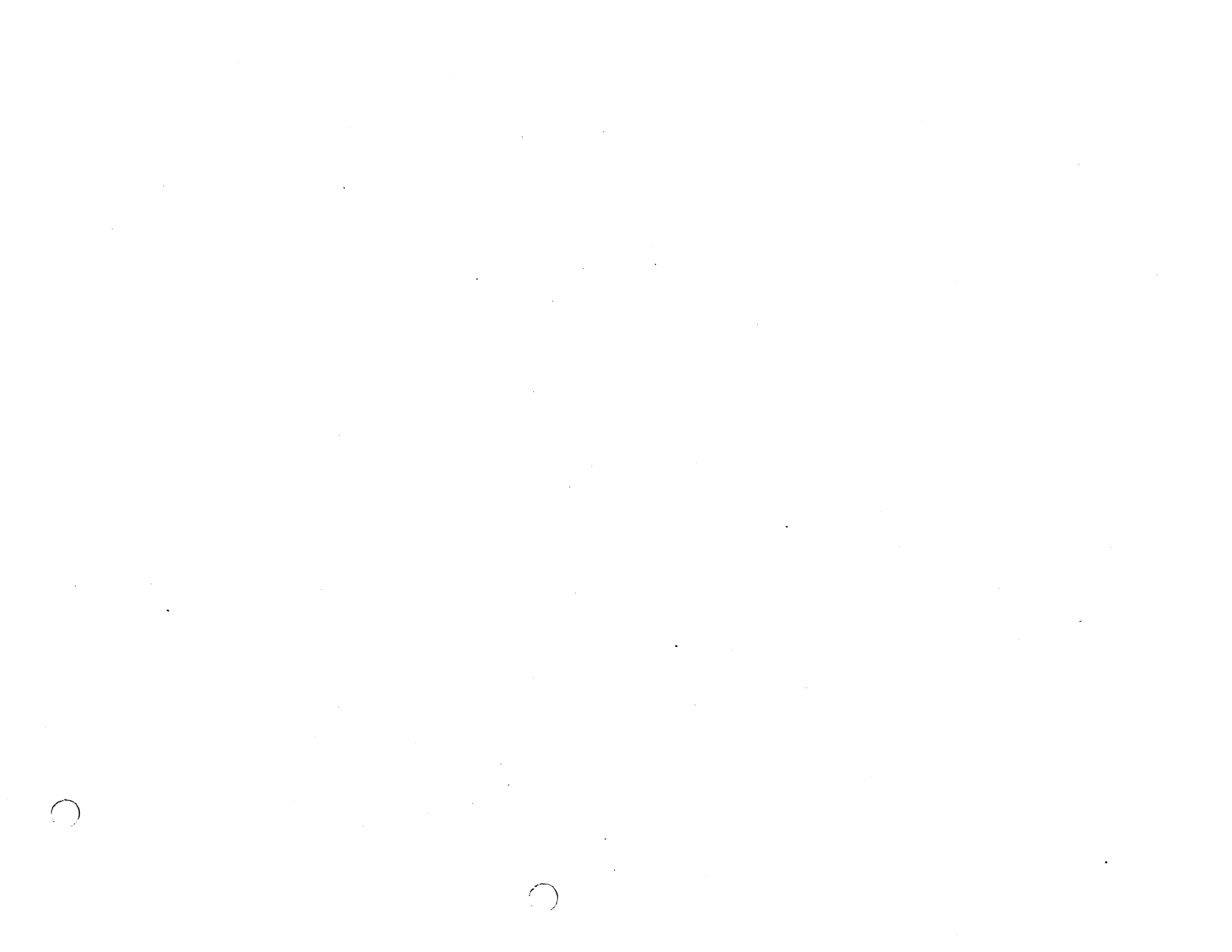
IN
*N,EESRTF,,,B

IN
*K,I6

IN
*L,PIC

IN
*7

*CTO, MSOS 5.0 INSTALLATION COMPLETED - YOU MAY AUTOLOAD
*Z



SYSCOP START
IMAGE START SECTOR IS 5950

	00	11	22	33	44	55	66	77	88	99	AA	BB	CC	DD	EE	FF
0000--0000	5800	0184	0000	0001	0003	0007	000F	001F	003F	007F	00FF	01FF	03FF	07FF	0FFF	1FFF
0010--0010	3FFF	7FFF	FFFF	FFFE	FFFC	FFF8	FFFO	FFE0	FFC0	FF80	FF00	FE00	FC00	F800	F000	E000
0020--0020	C000	8000	0000	0001	0002	0004	0008	0010	0020	0040	0080	0100	0200	0400	0800	1000
0030--0030	2000	4000	8000	FFFE	FFFD	FFFB	FFF7	FFEF	FFDF	FFBF	FF7F	FEFF	FDFF	FBFF	F7FF	EFFF
0040--0040	DFFF	BFFF	7FFF	0005	0006	0009	000A	0000	0000	0000	0000	0000	0000	0000	0000	0000
** **																
0080--0080	0000	0000	0000	0008	031B	89C8	8A3D	0145	01AB	8242	8581	856C	8442	845A	849A	8482
00C0--00C0	0000	0F0F	0008	0000	043D	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
00D0--00D0	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
00E0--00E0	0000	0000	0000	0000	0001	0000	0118	0000	0DB4	0155	824D	0F76	7F6B	1D16	8E73	0005
00F0--00F0	0214	0008	0F6E	0000	8200	FFFF	7FFF	1CB5	84DA	000A	000B	0009	0004	0004	84B3	020A
0100--0100	165A	54F8	000F	84DA	1339	54FE	000D	03E2	0000	54FE	0000	03E6	82DD	54FE	0009	0796
0110--0110	870B	54FE	000A	08B1	0000	54FE	0000	03E6	0000	54FE	0000	03E6	0000	54FE	000A	06E0
0120--0120	0000	54FE	0000	03E6	0000	54FE	0000	03E6	0000	54FE	0000	03E6	1F68	54FE	000E	08CC
0130--0130	0000	54FE	0000	03E6	0000	54FE	0000	03E6	0000	54FE	000E	0717	0000	54FE	0000	03E6
0140--0140	1400	8F47	1400	9016	489B	489B	489B	489B	489B	489B	489B	489B	489B	489B	4893	4803
0150--0150	4803	4803	4801	0001	0000	0001	000A	000B	0009	0005	0594	0567	0570	7FFF	822E	0000
0160--0160	0000	0F5D	0F5E	0F5F	7FFF	0000	0000	0000	0000	0579	0000	5BEA	0000	0000	0000	0000
0170--0170	0000	0367	2048	4F55	5345	2049	4920	2020	2020	2020	2020	2020	2020	2020	2020	2020
0180--0180	2020	2020	3038	3237	3830	0B00	0500	6808	4808	080C	6807	C8F9	09FD	68F7	18FF	0000
0190--0190	0000	0000	0987	0986	0F6E	0984	7FFE	7FFE	FFFF	01EC	8242	0000	870B	78F7	03E9	820B
01A0--01A0	0002	7FFE	FFFF	01F6	8242	0003	8088	0006	0200	8242	0004	824A	00F7	020A	82DD	0005
01B0--01B0	0000	0000	021E	8242	000A	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
** **																
01E0--01E0	0000	0000	0001	7FFA	0799	8DF1	0010	8DEC	039E	0001	0000	0000	03E9	0001	01E2	83FD
01F0--01F0	0007	03E9	5207	8646	FFFF	0000	00F7	1048	0799	132E	0004	132C	1304	0003	0000	0000
0200--0200	00F7	132C	01F6	1332	0005	1330	1305	0003	0000	0000	00F7	0307	0200	133C	0005	0307
0210--0210	824A	1339	0000	0000	0008	1350	0799	1358	0030	1350	03A5	0008	0000	0000	10AA	10AA
0220--0220	10A8	868F	0040	1010	03A5	0008	FFFF	0000	0006	FFFF	06E3	8AFD	0004	0317	0307	8B0F
0230--0230	0000	0000	03E9	0001	0228	83FD	0007	0307	824A	8646	FFFF	0000	0000	0000	0000	0000
** **																
0300--0300	0000	0000	0000	520D	8CA0	FFFF	0008	1205	1339	031B	00F7	1201	132B	EEEE	00F7	1205
0310--0310	12F6	FFFF	0001	5206	8CC2	FFFF	0019	5244	8B0F	1010	0006	52F8	AD63	031F	06E3	0000
0320--0320	0000	0323	0000	0000	0000	0327	0000	0000	0000	032B	0000	0000	0000	032F	0000	0000
0330--0330	0000	0333	0000	0000	0000	0337	0000	0000	0000	033B	0000	0000	0000	033F	0000	0000
0340--0340	0000	0343	0000	0000	0000	0347	0000	0000	0000	034B	0000	0000	0000	034F	0000	0000
0350--0350	0000	0353	0000	0000	0000	0357	0000	0000	0000	035B	0000	0000	0000	035F	0000	0000
0360--0360	0000	0363	0000	0000	0000	FFFF	0000	001B	03E9	03F9	03F9	0409	041C	06E3	06FD	0799
0370--0370	08B4	08CF	03F9	08B4	03F9	0766	077E	071A	0734	0825	074E	04FD	0409	08CF	06E3	08B4
0380--0380	071A	0734	06FD	001B	0000	4000	4000	400D	0000	4000	4000	0000	4000	4000	4000	4000
0390--0390	0000	0000	0000	4000	4000	0000	0000	0000	4000	4000	4000	4000	4000	4000	4000	001B
03A0--03A0	86F9	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	1345	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	EEEE
03B0--03B0	EEEE	EEEE	EEEE	EEEE	EEEE	EEEE	EEEE	FFFF	FFFF	FFFF	FFFF	001B	0000	0000	0000	0000
03C0--03C0	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
03D0--03D0	0000	0000	0000	0000	0000	0000	060E	03E9	0409	06E3	06FD	0799	08B4	08CF	071A	0734
03E0--03E0	0825	FFFF	E805	C202	60FF	14FF	14EA	0409	FFFF	5207	8646	0000	8767	FFFF	0000	86F9
03F0--03F0	0000	80D6	0000	1869	7B80	0000	FFFF	7FFF	8648	520A	91DD	91DE	91DF	FFFF	0000	156B
0400--0400	0000	01F6	0003	001B	7EE7	0000	0000	7FFF	91DF	520D	9273	92B1	926F	FFFF	0000	8D24
0410--0410	0091	3006	4006	001B	0F38	0611	0F34	7FFF	9275	0000	0001	0015	5208	96E6	0000	0000
0420--0420	FFFF	0000	0000	0000	08B6	0000	0000	0000	0000	0000	7FFF	0000	04FD	0000	0000	0000
0430--0430	0000	0000	5555	5555	0000	0001	0000	0000	043D	043D	0000	0001	0000	0000	0000	0000
** **																
04F0--04F0	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	5208	96E6	0000
0500--0500	0000	FFFF	0000	0000	0000	08B6	0000	0000	0000	0000	0000	7FFF	0000	041C	0000	0000
0510--0510	0000	0000	0000	5555	5555	0000	0001	0000	0000	051E	051E	0000	0001	0000	0000	0000
** **																

logical units when eyes worn down

$$\frac{178-192}{192} = \frac{25}{5} = 5$$

current priority level

this one is next audit B

(192)

END OF THIS

*log 14
log 13
log 2*

4 % N
E P P P P P P P P P
E P P P P P P P P P

%
R F
HR
R \$
0 @ 8 4 R
UUUU = =

R

UUUU

	00	11	22	33	44	55	66	77	88	99	AA	BB	CC	DD	EE	FF
06E0--06E0	E000	06E3	1C03	520A	9A08	9B26	9D2D	FFFE	0006	135B	0381	CB66	C002	13F2	13F2	A080
06F0--06F0	0000	7FFF	9D4D	0448	0017	000E	0000	0000	D554	0000	06FD	00C0	05DE	520A	9A08	9B26
0700--0700	9D2D	FFFE	0000	0000	0381	0B56	0000	001B	0000	0000	0000	7FFF	9A21	0400	001B	0000
0710--0710	0000	0000	D554	0000	06E3	00C0	05DE	E000	071A	1C03	520E	9F53	A103	A020	FFFE	0000
0720--0720	0000	0701	0896	0000	0000	0000	0000	0000	7FFF	0000	0414	0019	0000	0000	0000	DCDC
0730--0730	0000	0000	0734	0000	520E	9F53	A103	A020	FFFE	0000	0000	0701	0896	0000	0000	0000
0740--0740	0000	0000	7FFF	0000	0494	001A	0000	0000	0000	DCDC	0000	0000	071A	0000	5208	A4E8
0750--0750	0000	0000	FFFE	0000	0000	0000	08C6	0000	0000	0000	8000	0000	7FFF	0000	0008	0000
0760--0760	0000	0000	5BFB	0000	7B00	0766	5208	A4E8	0000	0000	FFFE	0000	0000	0000	08C6	0000
0770--0770	0000	0000	8000	0000	7FFF	0000	0008	0000	0000	0000	7B01	0000	9A00	077E	5208	A4E8
0780--0780	0000	0000	FFFE	0000	0000	0000	08C6	0000	0000	0000	8000	0000	7FFF	0000	0008	0000
0790--0790	0000	0000	9A01	0000	87F4	074E	E000	0799	1C03	5209	9417	94D6	959E	0001	0008	1350
07A0--07A0	0181	9106	0202	13E7	13E7	0009	13DC	0000	0000	8100	05D6	0000	0000	0000	0000	0825
07B0--07B0	002E	5BFB	0003	0000	0001	0001	07C5	1CB6	2977	0000	0800	0003	0000	1387	0000	0184
07C0--07C0	0215	0000	13DC	0D08	0001	6144	COFF	8000	0043	6140	C160	6141	1CF6	0000	C160	6841
07D0--07D0	0C00	0A08	5800	FC9A	0101	1826	4113	OC02	CE00	FC2D	4146	F113	6E34	E146	0DFE	0171
07E0--07E0	18F7	C17F	0112	C152	1806	0C03	F113	0804	6E28	C110	E113	6E00	FC26	CC00	FC1B	0103
07F0--07F0	09FA	6C00	FC17	0A60	6112	C172	6144	C141	E140	588F	1CD2	C17D	0102	0A00	617F	0C65
0800--0800	0A05	5800	FC6B	C17D	617F	5886	C14B	6113	0A60	6112	C14C	E14D	4140	5800	FF57	18C7
0810--0810	0000	0000	C14F	685E	0A01	6865	0A00	6859	6857	685C	6858	C012	0C06	6301	0DFE	0171
0820--0820	18FC	E850	0FAF	0173	C622	5209	9417	94D6	959E	FFFE	0000	0000	0181	10F6	0200	0000
0830--0830	0000	0000	0000	0000	0000	8300	0000	0000	0000	0000	0000	0799	0000	2DFD	0000	0000
0840--0840	0000	0002	0851	0000	0000	0000	0000	0000	0000	0000	0000	0000	FFFE	0000	0000	0000
** **																
0880--0880	0000	E000	08B4	1C03	520A	A841	A8B7	A8B4	FFFF	0000	130A	0201	2924	002F	001B	1328
08C0--08C0	0019	0000	7FFF	A843	0002	0001	0000	000C	0000	003C	0084	0018	E000	08CF	1C03	520E
08D0--08D0	AA5E	AA22	AA5B	FFFF	0000	1578	05A1	1A62	000A	001B	7F30	0081	0000	7FFF	AA60	000F
08E0--08E0	08EB	093A	0000	0000	0000	0000	0000	0000	0282	0000	0016	0000	0000	0000	0000	0000
08F0--08F0	0000	0000	0420	0408	0410	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
** **																
0930--0930	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	8200	0C0E	125A	1CB6	19B5
0940--0940	176D	137A	10A8	10A8	10A8	10A8	10A8	10A8	10A8	10A8	10A8	10A8	10A8	10A8	8701	8000
0950--0950	8080	8100	8180	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
0960--0960	FFFF	1072	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
0970--0970	FFFF	0000	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
0980--0980	0000	0000	FFF2	C805	0111	5803	5814	18FB	0986	E0EB	F000	0000	C622	0115	C000	0006
0990--0990	6400	8E4A	1CF5	54F4	5203	8DCD	1CF1	0006	7B61	78F7	870B	0500	01A0	D8FA	01A2	0400
09A0--09A0	1CF9	CF87	68F5	E8F6	54BB	0003	54F4	520D	8C53	0500	54BA	1622	0000	0000	0000	0003
09B0--09B0	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
** **																
0F30--0F30	0B00	D802	14EA	0000	3D53	3033	312C	33FF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
0F40--0F40	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
0F50--0F50	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	0F38	0000	0000	0000	7FFF	3830	3038	3237
0F60--0F60	0050	0008	001B	0008	0000	0021	0017	044C	0294	0005	0000	0000	0000	0008	4A50	5245
0F70--0F70	544E	8E73	534E	4150	4F4C	8E8E	0030	137C	0000	1A83	04B5	0000	01D6	0000	0000	0000
0F80--0F80	0000	0CF9	0000	021A	0010	1987	0000	0F34	02FB	0000	023D	0020	176F	0000	000E	0246
0F90--0F90	0000	0245	0030	137C	0000	1784	03F1	0000	024C	0020	176F	0000	0000	01A3	0000	0259
0FA0--0FA0	0020	0000	0000	0000	0193	0000	025E	0020	176F	0000	1CB6	018F	0000	0263	0020	176F
0FB0--0FB0	0000	0000	0166	0000	0268	0020	176F	0000	0003	00F2	0000	026C	0020	176F	0000	0000
0FC0--0FC0	0062	0000	026F	0030	0000	0000	0000	02E2	0000	0271	0030	0000	0000	0000	026F	0000
0FD0--0FD0	0279	0030	0000	0000	0000	036E	0000	0280	0020	0000	0000	0000	0003	0000	028A	0030
0FE0--0FE0	0000	0000	0000	034D	0000	028D	0030	0000	0000	0000	049B	0000	0296	0044	0000	0000
0FF0--0FF0	0000	4C20	0000	02A3	0040	0000	0000	0000	01CB	0000	036E	0040	0000	0000	0000	1560
1000--1000	0000	0373	0047	10AA	0000	0F34	024A	0000	03AC	0044	10AA	0000	0001	0160	0000	03B3
1010--1010	0044	10AA	8088	9136	0180	0000	0387	0040	0000	0000	0000	0842	0000	03BC	0040	0000
1020--1020	0000	0000	018A	0000	03D3	0040	0000	0000	0000	05D1	0000	03D8	0040	0000	0000	0000

Req. code = 0
; System lib. request

R M H T
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- [D) C P A A
X R %A -AF 4 F
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X D A OX
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P "R Y W X
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P ! L 8 800827 JPRE
TN SNAPOL O 4 = F
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L P 4 J D P
D 6 e B e

start of allocatable

areas 0,1,2,3 always have #'s. 4-15 in maybe same

allocatable always follows space

	00	11	22	33	44	55	66	77	88	99	AA	BB	CC	DD	EE	FF
1440--1440	54F4	09J2	0000	0000	08C2	0000	01F3	0000	0257	C8F9	0101	18FD	0173	E804	1800	01E5
1450--1450	18EF	13F2	001C	587C	5800	0239	5800	0260	5800	0191	COFF	0901	0C02	6EAO	D400	8E45
1460--1460	1800	01A4	586D	5800	0186	C800	024F	09F7	0101	1822	E893	C400	0997	0106	C622	A00A
1470--1470	A016	0822	0DC0	0171	18BD	R101	6101	1823	0000	C8FE	6109	OC03	CA1A	6305	0142	0DFE
1480--1480	18FB	COFF	090J	6104	0904	6102	E800	FF7B	D400	8E46	18D5	C844	8000	003B	6102	C800
1490--1490	FF72	6103	A01J	6800	FF6E	18CA	C8FE	48FC	0822	1400	5800	CCED	09FE	6CEB	00FD	0844
14A0--14A0	6200	C201	680A	011J	14EA	C400	8E71	0101	14EA	C201	E204	1C01	0000	5822	C622	0FC1
14B0--14B0	0126	C101	B031	6101	5800	0109	18A1	E0E9	E20A	0151	18F9	1800	FF75	5812	5800	00FD
14C0--14C0	0A01	A208	0102	0C08	1818	E105	0177	C000	7774	9105	A000	8888	0101	18ED	1889	1454
14D0--14D0	0C40	CA72	0123	0DF2	0172	18FB	1814	C800	FF24	A011	0103	0C06	1800	FF55	C4E9	0102
14E0--14E0	0844	0102	C42B	A021	8800	FF1A	09FE	642B	1800	0136	5801	14EB	0DF3	F8FD	0D58	40FF
14F0--14F0	E800	FF0C	C202	6103	0109	E800	01BF	CA00	FE0F	A02E	E800	FF02	0111	18D9	C201	0102
1500--1500	54BE	0814	6522	010F	E0F7	09FE	5400	8E7F	0102	0900	0107	C522	E0F6	0901	5CF8	0103
1510--1510	0900	0101	18AB	C800	01A1	0826	0FC9	0902	EAO0	FECE	0FF0	A02E	0101	0DFE	4101	C8CB
1520--1520	8000	0099	6102	E800	FED9	410B	0C03	CE00	FED5	6301	0D01	0814	09F5	0101	18F8	0804
1530--1530	610C	C522	010E	E0F7	09FE	5CD1	0102	0900	0106	C522	E0F6	5CCB	0102	0900	0102	1800
1540--1540	FEEF	E10B	1C8C	00B6	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
1550--1550	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	2008	4C02	1584
1560--1560	0000	000B	0029	7EE3	1CEE	2811	C1EB	011A	1EF1	0000	1D04	5A02	1584	0000	0000	0000
1570--1570	1CB6	0660	003C	0000	064C	1CD7	0000	25CE	4802	1584	0000	100A	002B	7F08	1CEF	35EE
1580--1580	3E14	15C4	1FEC	0000	0822	0DFD	5400	8770	0500	C400	8700	0104	54F4	1302	7FFA	14EA
1590--1590	C20C	60FF	C205	A01F	6827	C103	A00F	8824	6103	C202	0F49	A007	09F2	0116	C208	6106
15A0--15A0	C20A	6108	C20B	6109	0844	6102	C201	0113	0844	620D	14EA	54F4	1301	0003	14EA	0844
15B0--15B0	620D	C201	6808	C400	8E71	0101	14EA	C20C	E205	1C01	25CE	0000	1691	E10B	54BC	0147
15C0--15C0	0854	8400	0367	0133	0854	0901	0131	1821	C104	A02F	0834	6104	EEF5	C208	6800	019C
15D0--15D0	0F44	A009	09F4	010F	09B0	013E	09F5	012F	C208	0FC5	A005	09FD	0014	D800	FE22	D800
15E0--15E0	FE20	1800	FE75	C204	0112	0804	6204	1CD4	1800	FE48	145A	E800	00C9	CA00	DFD9	A01E
15F0--15F0	0FC4	E800	FE0F	0141	0814	8800	FE0A	683C	E0F6	5400	8E7F	0102	0900	0106	C0F6	09FD
1600--1600	6800	DFD9	1800	0088	1CE5	COFF	090J	0822	8021	680C	C800	00AA	09F2	0106	C622	A031
1610--1610	0113	8031	8622	6622	54F4	9578	E81D	C4E9	0102	0844	0102	C42B	A021	0834	642B	E800
1620--1620	FDE2	0500	4488	E0B8	C800	FDD5	6201	C800	FDD3	6202	C800	FDD1	6204	C42B	6203	0D05
1630--1630	40B8	0400	14EA	1FF2	0A00	6800	FE1A	0162	1800	0027	54F4	1301	0003	14EA	0814	8000
1640--1640	3030	0DFE	0155	E800	FD8A	0D02	4800	FDB8	E400	8E3F	620A	E400	8E3E	40FF	0C03	0AFF
1650--1650	6722	0DFE	0171	18FC	C800	FDAA	E400	8E3E	40FF	5400	854E	4522	6101	0802	1800	0001
1660--1660	4847	E400	0367	4813	E600	0367	C208	0F44	A009	09F4	0117	C204	0105	0900	0113	6204
1670--1670	0804	621F	E804	0DFE	0142	18ED	0001	4400	8E59	COB8	09FA	60FF	9000	0192	0121	1824
1680--1680	C4E9	0104	C000	0800	680B	6813	C104	A011	0FC1	0F41	0133	09FD	0131	1811	C103	0B00
1690--1690	E0F7	09FE	5400	8E7F	0102	0900	0107	C103	0B00	E0F6	5CF8	0102	0900	0102	COFF	18DA
16A0--16A0	COEA	6103	18FB	54F4	1300	0004	14EA	FFFA	C400	8E46	8400	8E45	8400	8E47	0101	18F3
16B0--16B0	6400	8E71	6400	8E5A	E0EE	0600	E8F0	0D00	0141	0C08	0D06	C400	8E3C	60FF	0A01	14FF
16C0--16C0	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
** **																
16F0--16F0	0000	0000	0000	0000	C8FE	6C74	0167	CC73	6805	0A00	6C70	54F4	1800	0000	CC6C	0119
1700--1700	EC69	F000	0015	4400	181A	E107	0174	0154	E108	0D9F	0161	18E8	0C00	0103	285C	0FE1
1710--1710	0FCF	F107	8108	0122	0D01	A011	0161	1813	4107	6108	0FC1	0F61	384E	1813	0111	1840
1720--1720	E107	0158	E108	0146	8108	0842	0124	0C01	A011	1802	18C9	6108	4107	0FC1	0F61	1803
1730--1730	0151	09FE	E83A	0141	182B	E400	016B	5400	8E7F	0103	0900	0101	18B7	8E40	FF76	0DFC
1740--1740	017D	0842	C105	3827	0151	09FE	8108	E107	0122	0C01	A011	0FC1	0F61	180C	C108	E107
1750--1750	8105	0122	0D01	A011	0FC1	0F61	3814	0151	09FE	ECDC	5CDD	0103	0900	0101	1895	E800
1760--1760	FF55	0A04	0141	0A02	A807	0112	1800	FD5B	1C00	FF4D	0060	1A62	0000	0064	17D1	C8FE
1770--1770	6C15	0A00	6400	8D81	E400	8E3F	0814	E20A	0DFE	EA0D	1AFC	0C0E	0A01	6806	C400	8E3C
1780--1780	60FF	C802	14FF	0000	18FD	8E53	0016	0019	001C	0032	0020	002B	004A	0822	6207	18EB
1790--1790	C8F3	6C17	18E8	C000	18F9	6C13	18E4	0822	C202	60FF	C101	A00A	900A	0112	4208	18DB
17A0--17A0	0A02	18DB	0A01	60E4	0A00	6400	8E59	18D3	8E49	0A00	6400	8E44	6400	8E59	0A01	60E4
17B0--17B0	E0E9	E209	COB9	6203	6205	6207	620B	620D	COEA	6400	84EA	C400	8E4A	6CEA	0844	5400
17C0--17C0	8DCD	0822	E202	C202	0900	0101	18D9	COFA	6805	54F4	1D00	0006	0000	0000	2000	14EA

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17D0--17D0	18AA	01E4	1CB2	C000	3135	183B	C806	0874	0114	1800	0182	00DF	47FF	0C1A	CAC1	B8DC
17E0--17E0	0105	B8F9	0103	0DFE	0171	18F8	4842	5800	00DE	582A	E83E	0A00	017E	0151	1813	0DF7
17F0--17F0	0161	017B	0DFB	0161	017C	014A	0DFB	0177	0DF7	0174	1833	09F7	0901	0902	0901	0902
1800--1800	0901	0903	0C00	6R06	C400	8E3C	60FF	C802	14FF	0009	5832	0A07	0802	18F5	C000	3033
1810--1810	EC05	620A	18F7	17EA	C400	8E3F	60FF	0C0E	CA06	66FF	0142	0DFE	18FB	1CF5	176F	002F
1820--1820	19BF	0007	0197	00D3	009B	0000	0000	0000	0004	1543	0001	0005	00D6	CA0A	0834	0902
1830--1830	6R05	C800	00C5	60FF	5800	0000	1810	0175	0177	0179	8E54	8D81	1846	5800	0088	0842
1840--1840	4CFA	1CFA	58F9	0A00	18B7	58F6	CC00	0155	682B	A00A	90FD	0103	80FD	9000	00FD	6873
1850--1850	011B	587A	54F4	0D00	0007	0000	18FC	0002	0070	14EA	0161	18F5	CC00	FF5F	8000	0163
1860--1860	60FF	CC29	6804	0AFF	0C23	6600	19BF	6A6B	0DFE	0171	18FA	5860	C400	8E3E	6807	54F4
1870--1870	0800	0000	0000	4004	0025	19BF	C8FB	0101	18FD	C8F9	012E	0FC4	0139	0C00	0FEC	E600
1880--1880	0367	C20C	0FC4	0122	1800	00P7	1800	0116	0E3E	E400	8E3E	1846	0C23	CCFC	6810	681E
1890--1890	CA42	B012	0108	CA3F	B000	20FF	0104	CA3B	B000	2020	0117	C012	6A36	6600	19BF	0DFE
18A0--18A0	0141	18EE	CA30	A00A	B028	0102	CA2C	1805	CA2A	A01A	B00A	6A27	6600	19BF	C814	010F
18B0--18B0	ER23	C823	0F68	9R12	010A	54F4	0D00	0000	0000	18FB	0024	001C	C8FB	0101	18FD	580C
18C0--18C0	1800	FEFC	0000	4A20	0DFF	422C	17E9	5804	D400	8D81	1CFB	18C8	C400	8E71	0101	14EA
18D0--18D0	1CFA	5826	2A5A	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
18E0--18E0	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
18F0--18F0	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	1802	C8FE	60FF	480B	4800	FF23	0C23	CE07	66FF
1900--1900	0142	0DFF	18FB	4CC5	1887	19BF	C800	FF20	0122	C800	009B	E400	8E3D	4815	6623	0D27
1910--1910	40FF	0CDB	C722	0864	0104	D80C	0D01	0141	18F9	5802	18DE	0B00	54F4	0C00	0000	0000
1920--1920	18FC	0000	0000	C8FB	0101	18FD	E8F9	1CF3	C000	18FB	68F5	C0FC	90FB	0101	58EC	D8F0
1930--1930	0A00	68EF	CC6A	6R05	54F4	1C00	0000	0000	0000	5000	C8FC	0101	18FD	E400	8E3F	C20F
1940--1940	0135	6862	C210	6861	C211	6860	0AFF	620F	5802	180B	0B00	54F4	0D00	0007	0000	18FC
1950--1950	0008	0057	14EA	1CF6	C000	18FB	68F8	C0FC	90FB	0101	58EF	D8F3	0A01	60E4	C0C1	6809
1960--1960	54F4	0D00	0000	0000	08C2	0000	004A	0000	0000	C8F9	0101	18FD	E0FB	480D	E600	0367
1970--1970	C208	A010	0F44	9000	028A	0119	54F4	1D00	0000	0000	0000	2000	C8FC	0101	18FD	0A00
1980--1980	ECBD	620C	6800	FEA6	6400	8E61	6800	FE9F	6800	FE9B	6400	8E4F	C400	8E48	6C0E	C800
1990--1990	FE95	0108	0802	0A00	6800	FE90	C400	8E41	60FF	14FF	1800	FEA9	8E49	C000	18FD	6CFC
19A0--19A0	1800	FEA4	0000	204A	4F42	2020	2041	424F	5254	4544	2020	2A54	0000	1800	FE5F	0000
19B0--19B0	1800	FE5C	0000	1800	FE59	02FD	1CB2	C8FE	6C75	683B	4878	1804	4A50	2020	2C20	2A5A
19C0--19C0	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
19D0--19D0	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
19E0--19E0	FFFF	FFFF	FFFF	19C0	176F	002F	19BF	00D7	0197	00D3	009B	0000	0000	0000	0004	1543
19F0--19F0	0001	0005	00D6	FFFF	19B7	00A7	0005	0008	002D	00C3	00DF	00C2	0042	68ED	68ED	68ED
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1A10--1A10	6400	8E49	6400	8E48	C103	0900	0111	1841	C105	E104	0F68	0900	0101	182A	0814	0900
1A20--1A20	0116	E103	0F68	0F48	B000	3000	1804	0F68	E103	0F68	0D03	0147	181B	8E52	00D2	009A
1A30--1A30	024B	01F1	0F34	9000	3030	0C00	3000	0100	481F	2046	881D	681C	09FD	0121	1809	9000
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1A70--1A70	8054	804D	8046	805B	8E53	8E58	8E44	8E51	0000	0000	582E	ECB1	F000	00CC	54F4	1200
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1A90--1A90	18C9	0A00	6803	0C06	18C6	0000	5812	EC95	F000	00E8	40EE	54F4	1200	8069	14EA	0500
1AA0--1AA0	0A00	6800	FF49	6P00	FF46	6800	FF46	18D0	1A7B	0500	C400	8E71	0101	14EA	6CC7	6400
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1AD0--1AD0	0900	0115	C101	0101	180A	C522	0102	1800	0197	COEC	6101	COED	6522	1822	E522	5400
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1B00--1B00	C108	0131	D103	E864	0142	1800	0169	C103	685E	C105	6865	0804	685B	0500	54BA	0400
1B10--1B10	4853	4853	684F	684F	A006	6800	0094	0822	C849	A016	BA56	6846	6846	C223	A000	003A
1B20--1B20	0112	C848	0101	1867	COED	0901	6846	COEC	6845	COF6	0822	90EC	0131	E0EC	483A	E83C
1B30--1B30	F0EB	C204	684E	9835	0864	6835	4838	EOED	0D01	5400	8E7F	012C	0900	011A	682C	C830
1B40--1B40	E400	8E57	6622	0C02	C400	8E56	60FF	14FF	E826	C821	681F	6836	C205	6835	C206	6834

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1	00	11	22	33	44	55	66	77	88	99	AA	BB	CC	DD	EE	FF
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1B60--1B60	1R2A	0000	0000	0000	0000	8E59	0000	0000	0000	0000	0000	0007	0000	0000	0000	0000
1B70--1B70	0000	000A	000R	0006	0009	0001	0005	0004	0000	0400	8E45	54F4	4800	0000	0000	08C2
1B80--1B80	0000	0000	0000	0000	C8F9	0101	1R8D	5400	8770	1CEE	C820	09FE	0112	5R5D	1R2C	09FB
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1BA0--1BA0	1R19	1R17	6R2C	E807	0151	1R03	0DFB	0154	6R03	1R11	0000	0000	C400	8E3E	6R83	0C24
1BB0--1BB0	CER3	6ER0	0DFE	0171	1RFB	C8AC	6400	8E44	C102	6R1F	C8EF	010F	09FD	0115	5R2C	C8EB
1BC0--1BC0	0101	6R44	1R07	09FE	0106	09FC	0102	09FE	0102	0A00	6R9E	6R9B	6C98	E0EE	0600	E400
1BD0--1BD0	8E71	0141	14EA	C892	6R04	C8D5	0400	1400	0000	0000	E8FE	4400	8E72	E000	8E73	4400
1BE0--1BE0	0F71	40EE	0700	DC81	C800	FF7B	E800	FF7B	0400	1C80	0000	0A02	5R0A	C8BC	09F9	0111
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1C00--1C00	CRA9	09FE	0116	0A06	6R00	FF5B	5R02	0121	1R82	C8A0	09F9	0113	0A01	6R9C	1R8E	C102
1C10--1C10	6R9A	C522	010E	6R00	FF6E	C101	6R00	FF68	C800	FF52	6R00	FF65	COB3	6R00	FF60	5R00
1C20--1C20	FF57	1CCR	0161	1R16	6105	C105	E0F7	5400	8E7F	0900	0108	COF6	E105	5400	8E7F	0103
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1C50--1C50	5CD7	0900	0111	14EA	E81A	0D05	0R14	8OFF	90B8	0121	1R8E	0400	COEF	0101	14EA	0500
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1D00--1D00	2045	5252	1CEC	0001	0A01	6RFD	14EA	5041	5353	3120	5041	5353	3220	5041	5353	3320
1D10--1D10	5441	424C	5354	5R52	4546	2020	0000	0A00	6400	7FF9	6400	7FF1	C400	7F6B	0101	1R19
1D20--1D20	C400	016B	6400	7F8E	COB3	90C2	0114	CCFB	90C1	09FD	6CF8	C000	02EF	6400	7FF3	6400
1D30--1D30	7FEF	8000	00A0	6C17	9CEE	0132	1R00	037A	C400	7FF3	6400	7FEF	C000	7F31	60FF	E000
1D40--1D40	0242	0A00	6600	7D2R	0DFE	0171	1RFB	6400	7F8D	C400	7F8B	611E	611F	0914	6121	CCFA
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1D60--1D60	6R73	6R00	01DD	6R00	027D	6400	234R	5R00	031D	0A30	OC04	6331	0DFE	0171	1R8C	5400
1D70--1D70	27A4	5C4F	5400	1E83	013A	9000	35EE	0111	14EA	C10E	9000	3E14	0112	1400	27EA	C400
1D80--1D80	7F6B	011C	6400	7F72	6400	7F71	DCF9	OC03	0A01	6600	7F6D	0DFE	0171	1R8B	C10E	9000
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1DB0--1DB0	5400	24C2	5400	25F6	C11R	8121	6122	0A00	6117	C10E	1R08	C10A	0102	1400	23D8	5400
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1DD0--1DD0	6E03	1400	2451	7D8R	C10E	9000	15C4	0101	1R14	0AFC	OC2B	6E67	0A08	OC2D	6E64	C105
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1DF0--1DF0	0122	012R	0R64	910E	0105	0DA0	0151	1R3C	OD60	1R84	C12R	09F8	013B	0901	0R64	612R
1E00--1E00	0DB7	0R14	OC2D	6ECF	C12R	OC2B	6ECC	1R2A	0901	0119	ODCD	CA00	034R	OC2C	6EC4	C12R
1E10--1E10	OC2B	6EC1	1R1F	0A00	0F62	0FC2	612A	CA00	032F	E12A	0FC4	0DFE	0171	1R8C	OC0F	0R84
1E20--1E20	E12R	0DFC	0162	0FC2	1R8E	0152	0FC8	1R85	0DFE	0155	OC0F	0FC5	0FA8	0R34	1R8E	0FC4
1E30--1E30	1R8B	5CB2	1R8R	5R00	025C	C11F	611E	OC02	C117	0116	C323	6E06	0DFE	0171	1R8B	1R0D
1E40--1E40	C600	2446	9323	011R	0DFE	0171	1R89	C117	09F5	0132	1R00	FFE5	C109	0111	1R1R	C000
1E50--1E50	7D2R	E11E	D11E	D11E	5400	256C	5400	216A	0151	1R8D	OD00	014A	0A00	6110	C201	610D
1E60--1E60	C202	6111	OD02	4119	1400	22BA	0A00	6R16	0A01	6127	E127	C812	5400	2470	7D2R	017E
1E70--1E70	C127	0960	6127	5400	216A	0151	1R83	OD00	0146	C804	0901	6110	1R81	0000	1R82	C8FD
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1E90--1E90	5R4E	0103	0A3F	A124	0104	0A00	610E	D10R	1CEA	E123	0F66	0FC6	0FAA	09DF	0136	0FC5
1EA0--1EA0	0R34	E124	0F2R	ODDF	0161	1R8F	0R34	1R8E	1EE6	C101	6R00	0094	D10C	0A00	E10C	ODB7
1EB0--1EB0	0175	C112	0111	1R1F	OCFF	1CF2	OD4R	0F61	EE00	0086	0101	0FA8	0F2R	C112	0101	1CE8
1EC0--1EC0	014D	017C	0DF6	0149	C10R	0DFB	0153	0A47	610C	1R8F	OD8C	0175	0152	0104	1RDA	ODBF

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1	00	11	22	33	44	55	66	77	88	99	AA	BB	CC	DD	EE	FF
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1E00--1E00	C123	0119	C808	0FC1	6806	0123	0C03	5800	013B	1832	5555	0D04	4107	0142	0DFE	0151
1F00--1F00	1823	182C	E127	09EF	0138	09F5	0122	0145	180C	09F8	0132	09E4	0131	1823	0155	D127
1F10--1F10	0C00	091C	0FC6	180D	E126	0DF9	014B	0D06	0A00	0F61	0113	C107	0FC8	1802	C107	8323
1F20--1F20	6323	D126	18C2	E127	0151	D124	E126	0143	0DFE	0F21	4126	C123	1CB1	E127	0141	18F6
1F30--1F30	5800	FF76	0105	0C01	4107	09F3	0101	18F8	0A00	0C03	6323	0DFE	0171	18FC	18E8	7D88
1F40--1F40	1F68	C105	0822	0FA1	4105	0133	C000	7D88	1803	C000	7D88	6101	68F2	6800	0093	6800
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2000--2000	0121	1CFC	581F	E120	C000	7D88	5400	24C2	C120	0902	6120	1CF2	0000	C106	0822	0FA1
2010--2010	4106	0132	0A30	180B	580D	C118	8121	0822	C000	7DE8	5CEC	D118	D118	5868	88FA	6102
2020--2020	1CEB	0000	C118	8121	6127	C400	7FRE	9127	0102	09FE	0111	1805	C400	7FE8	9120	0122
2030--2030	1800	0080	1CEE	0000	CA22	6829	0145	C000	2000	0C2A	8EA6	6EA5	0C29	C115	5827	481C
2040--2040	681C	C400	7F6D	0112	C0FC	1802	C0FB	88B0	6807	0A00	6116	54F4	4C00	25CA	0000	0000
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2070--2070	612D	0A00	6128	C12D	0DFE	0141	18F2	E129	0FA8	F12A	C12B	0FC8	812C	1CE7	0C01	58B3
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20D0--20D0	0136	0FC5	0834	E124	0F28	0DDF	0161	1CEC	0834	610E	0C00	CA0C	0121	0864	910E	0112
20E0--20E0	1400	2254	0PA0	0151	1CDF	0D60	18F4	CF7E	3091	0484	0491	4EA2	05C4	15F2	36A9	12C9
20F0--20F0	B17E	4E91	29B0	4A8A	482F	4E01	B26C	25D0	3EB4	39F0	15C1	15D1	25C1	25D1	15E2	25E2
2100--2100	1709	4E02	0E02	B9AC	0653	3253	4593	0593	3193	B3C5	4C2E	4C30	4C2D	4E3A	4E2E	4E30
2110--2110	4E2D	4EF3	4EEE	4DF6	4DCF	4E05	4DD0	4E06	4DC6	B34B	0D92	5241	524D	5251	5242	5061
2120--2120	506D	5071	5062	042D	0431	0422	142D	1431	1422	302D	3031	3022	0C2D	0C31	0C22	FB7C
2130--2130	58C4	C1B8	1635	0DED	1034	0A73	0B53	EA3B	15D4	1714	0586	3AAD	10A3	24C1	24C3	1526
2140--2140	15A3	3274	406F	24D2	3993	4E03	1554	CE8F	9AB2	3641	5D70	23BA	C9D4	5E67	1235	6701
2150--2150	2345	6789	ABCD	EF00	0800	0840	0820	0808	0810	0818	0860	0848	0850	0858	0828	0830
2160--2160	0R38	0R68	0R70	0R78	0R88	0R80	0R88	0R8E	0R80	0R8F	0000	COFF	6128	0C00	4129	40FF
2170--2170	0C00	CD0E	0123	D400	7F5A	0864	9600	7F54	011B	0DFD	0143	0D03	DOFF	18F3	E100	7D28
2180--2180	C400	7F59	60FF	1CE6	CCEP	0118	0A06	0852	0832	FOFF	0D9F	0143	0D60	18E1	0CFF	18F0
2190--2190	D109	C000	7DE8	6102	C107	0117	0AFE	610C	5400	1EDE	0102	C107	0101	186D	5400	20C4
21A0--21A0	5C73	D119	C119	099F	0117	6119	E11E	D11E	D11E	C806	5800	0317	E119	C123	6600	7D28
21B0--21B0	0D01	C124	6EFC	0D01	C125	6EF9	0D01	4119	C000	E2E0	6C5A	0A01	611A	D108	5400	1EDE
21C0--21C0	D108	586A	C11A	E119	6EEA	0D02	C118	6EE7	4119	D10D	0A00	680D	5C44	5C44	5C44	E101
21D0--21D0	4103	E10D	0148	0137	9000	31E3	0112	183F	0000	C8FE	5847	C10E	9000	15A3	0111	1870
21E0--21E0	0AFF	610C	610F	5400	2297	0133	5400	227C	0124	5800	0C00	5C2A	18DF	09D8	0101	18F3
21F0--21F0	5CF3	0133	0FC8	6128	5CEF	013A	09D8	0111	09F8	0927	8128	6128	C107	09D8	0104	5CE4
2200--2200	0139	09D8	0117	E11A	C128	9E0F	0104	0DFE	0171	18FA	184A	0814	0901	5CD9	0139	18D3
2210--2210	1FF6	1F61	1E83	2090	7E48	200C	C107	0101	183C	C11A	612E	5810	C11A	912E	88B9	6888
2220--2220	18AB	0000	E119	0DFE	6E8A	0A00	610D	E11A	0DFE	411A	1CF6	0000	5400	1EDE	0118	C124
2230--2230	0108	C107	0111	1CF7	09FE	0113	18F5	C124	0101	180D	5CD8	E11A	0DFE	CE06	9123	0106
2240--2240	0DFE	0171	18FA	C107	09FD	0131	180E	C123	E11A	6ECA	D11A	C107	0101	18DE	1C0C	581E

R

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< A @
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A H 7 1 ? XG
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1	00	11	22	33	44	55	66	77	88	99	AA	BB	CC	DD	EE	FF
2250--2250	C106	0121	5CC2	1818	0C02	5400	2033	0C00	C119	3000	0006	C119	09FE	6119	0141	18F7
2260--2260	C109	09FE	6109	5CAC	5CAC	5CAC	0133	9000	15A3	0101	18F8	1400	109A	0000	0AFE	610C
2270--2270	610F	5R03	5CA2	1CF9	0000	5R22	0131	5R05	0131	18FB	5830	1CF8	0000	6113	C102	6817
2280--2280	D10F	E10F	0DB7	0152	0AFE	1CF6	0D48	0A00	0F61	0115	C113	0FC8	8000	00FF	1805	C113
2290--2290	R000	FF00	AEO4	6E03	C113	1CE6	0000	0000	C101	6113	C103	6101	D112	5400	1EA8	0A00
22A0--22A0	6112	C113	6101	0174	0814	6107	0DF2	0151	0AFE	1CED	0000	E102	48E9	E10F	0DB7	0155
22R0--22R0	0C24	C000	0P00	6EE2	1CF5	0M48	0A00	0F61	0D01	18F7	C107	0109	6128	0A00	6108	5CDE
22C0--22C0	D108	E128	0101	0C01	4107	C101	6103	C104	6800	0080	C117	D117	0105	C000	7E48	6104
22D0--22D0	6879	0A00	0C5F	6E76	0DFF	0171	18FC	6136	611C	C110	6C6F	E119	C201	0C01	6E6B	0A03
22E0--22E0	611A	0A7F	5400	23C3	0A00	E107	1A01	0925	09CF	09FD	0903	092A	0121	1C5D	5CF4	C10D
22F0--22F0	09FE	0111	1841	D10R	5C57	0111	1R3D	C10C	09FE	610C	1818	0A7F	5CE6	5899	E110	0122
2300--2300	015A	1832	0112	D136	18FR	09D8	0117	0141	181F	C11B	0111	1C3F	D11D	18EF	09FA	011A
2310--2310	015F	6136	C100	09FE	610D	0111	1C34	D11B	D11C	18E1	090C	0102	0917	0112	0151	1814
2320--2320	C107	5CC1	0A00	611B	611C	6136	18D6	611D	5800	FF6D	0138	09D3	0111	18E4	090C	0103
2330--2330	0917	0101	1C1P	C11C	0C00	411C	0102	C136	0101	1813	D10B	C000	8000	0C2A	8E0A	6E09
2340--2340	0C02	C323	632E	0DFF	0171	18FB	1400	1E31	7D88	7DE8	207E	1EA8	0A7F	5876	C10D	09FE
2350--2350	610D	0101	18F9	C111	0101	1827	C8E5	0C2A	8EEF	6EEE	D10A	C117	09FE	0111	181D	C400
2360--2360	7DE8	0C00	0FE8	0107	0146	C400	7DE9	9800	0DE8	6400	7DE9	E122	C86D	5800	0154	D122
2370--2370	D122	0C5F	C600	7E48	6E65	0DFF	0171	18FA	C861	6104	68CE	18CA	0A5B	5846	C114	C114
2380--2380	0C00	4500	0028	0C02	09EF	0132	D128	18FC	0906	0132	0941	1802	093A	6328	C128	612B
2390--2390	0A00	6128	C12B	0DFF	0141	18EE	C12A	6128	C129	582A	C128	5828	0A7F	5826	D114	C111
23A0--23A0	09FE	6111	18B0	6128	C000	4000	0C2A	8EA0	6E9F	0A00	610B	C128	0139	5400	2090	0C02
23B0--23B0	C323	932E	0113	0DFF	0172	18FA	1C93	C101	6103	D108	5C90	0112	1800	FF75	C10C	09FE
23C0--23C0	610C	1800	FF3A	0000	6113	D11A	E11A	0A00	0F61	0DA0	0152	1400	20B1	0D5F	0113	C113
23D0--23D0	0FC8	1804	C113	8E00	FF74	6E00	FF72	1CEB	C400	7DE8	0C00	0FE8	0FC8	0144	C863	0930
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23F0--23F0	5C14	0121	1833	E110	0143	09DE	0112	1803	09D5	0112	0A2A	1805	C107	09D8	0109	C107
2400--2400	5400	227C	0134	5400	2297	0131	18F5	181E	5CFB	0A03	6137	581E	0980	0101	18FC	C107
2410--2410	09FE	6107	0101	18F7	6136	5814	E136	0980	0114	0152	5CE6	0136	18E6	D136	097F	5CE1
2420--2420	0131	18F3	0C01	5400	2033	5800	FE83	1400	1DC1	0000	D137	0A00	E137	0F61	EAAA	0101
2430--2430	0FAR	0F2R	0814	1CF5	0000	E400	7DE9	0118	0814	8121	0822	C806	5C26	DCF8	DCF7	1806
2440--2440	5830	7EAR	C80E	8CF2	6CF1	1CEE	0000	0000	0000	0B00	0C02	68FA	0DFF	0171	18FC	1CF9
2450--2450	0000	0A00	68FD	C117	0104	09FE	6117	610A	0113	58EF	1400	1E31	E122	0DFD	4122	C000
2460--2460	7DE8	5400	256C	CCFC	0C00	0FE8	0FC8	6110	0145	ECCC	0111	0DFF	4CC9	58C6	18EB	0000
2470--2470	0000	6R3A	0814	0R42	3000	0060	6R69	4R35	E833	C600	7F73	0112	0802	1843	8R61	6860
2480--2480	0A01	0R82	4R29	C85C	9A1F	0134	9800	001E	0121	1824	C855	6812	6A17	CA1A	6R0C	CA1A
2490--2490	6P00	0A00	6116	54F4	5A00	25CA	0000	0R2C	0001	0000	0000	0000	0000	0000	C116	0111
24A0--24A0	18FD	ER0A	1R0B	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	C832	9AF4	2000
24R0--24R0	0060	ERF9	8AF6	6R7E	CCBB	6R7B	CRF4	0101	1837	0C5F	CE77	6E75	0DFF	0171	18FB	0842
24C0--24C0	DRAF	1CAE	0000	6R25	4R26	0C01	CR24	9A7F	0132	9A7F	0134	0DFF	0171	18FB	1812	C81B
24D0--24D0	DA7C	9A75	4P0D	2000	0060	E80A	8A6E	685A	0C5F	CE0F	6E57	0DFF	0171	18FB	1CE3	0000
24E0--24E0	0A00	6116	54F4	4C00	25CA	0000	0R83	0060	0000	0000	0000	C116	0111	18FD	1CD3	C842
24F0--24F0	8R8B	6840	0R22	0D4R	C8B5	PR82	5R00	00F2	0900	0112	1800	FF8E	0A00	6830	6830	6830
2500--2500	5R32	0133	0102	5R56	18FB	0AFD	680C	5R2B	D80A	0900	011D	C824	0116	C820	9000	00C0
2510--2510	0105	18F5	0000	C8FE	0101	18F1	0A60	1812	C815	E829	09FE	0143	0C00	4825	09FE	680E
2520--2520	C80F	0114	D80D	0A60	6R0A	1R0A	C807	0901	0F41	6800	FF25	0842	1893	0000	0000	0000
2530--2530	0000	0000	0B00	C80F	0103	D80D	C80D	1CFA	5816	0147	0126	0864	6807	5811	0864	6803
2540--2540	18F5	1CF0	0000	0000	7C08	5F88	7FFF	7FFF	0003	004C	0120	1CR0	0000	0000	0B00	E8DD
2550--2550	0F61	EEDF	0121	0FA8	D8D8	0F28	0814	0D00	1CF5	0000	6810	E8D2	0F61	EED2	0131	0FA8
2560--2560	0FF0	A01A	B808	0171	0FC8	E8C8	0F21	6EC8	D8C5	1CEF	0000	0000	0000	0165	0C00	5844
2570--2570	0C01	5842	1CF9	6RBC	0814	98D0	0135	98D0	0123	0A00	68F0	1829	0814	98C9	0135	98C9
2580--2580	0123	0A01	68E8	1821	0814	9121	0122	0A00	1802	0A01	68E0	4814	0822	5826	E8DC	C810
2590--2590	6AB5	CAB2	680B	CAB6	6808	0A00	6116	54F4	4800	25CA	0000	0R83	0060	0000	0000	0000
25A0--25A0	C116	0111	18FD	E8FB	0814	E8C5	9A9F	2000	0060	E8C1	8A99	6885	0C5F	CE83	6E81	0DFF
25B0--25B0	0171	18FB	1CB9	0B00	CA97	0111	1CFC	CA8E	6800	FF25	CARF	6800	FF2A	C011	6A87	0844
25C0--25C0	6AR8	CAR2	ER00	FF1B	5800	FEFC	0A60	6800	FF1E	1CE9	0C01	4400	7F47	14EA	0174	0D01

X
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 ! 3 C *
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 : BO H5 3 C
 H) 4 ! \$ U
 T Z %
 2 B
 %H% \$ 7 - 4
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 X2 3 XV X+ \$ H%
) C H%
 A % B
 X G % X
 L
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 XB 5 #) 5
 # ! ! " H "X%
 T H %
 % * D
 X D G

J	00	11	22	33	44	55	66	77	88	99	AA	BB	CC	DD	EE	FF
2500--2500	4400	7F6A	14EA	4400	7F6A	54F4	4600	18F9	0000	0FC4	0137	54F4	4C00	0000	0000	18FC
2500--2500	0006	25E3	14EA	494E	5055	5420	4552	524F	5220	0B00	0132	0165	1808	0173	0852	0834
25F0--25F0	1805	0852	0834	0121	0804	1CF3	0000	C400	7F6C	0101	1828	E000	26E9	5800	002F	E000
2600--2600	26E9	C622	0121	181C	0112	C203	0101	1816	40FF	0C00	C600	7F73	0102	0D02	18FB	C101
2610--2610	6600	7F73	C102	6A00	00C0	0D01	C104	6600	7F73	C105	6A00	00B9	E0FF	0D06	18E2	C800
2620--2620	0053	60FF	5800	00EB	0A01	6400	7F6C	C011	6800	FE7A	6800	FE77	1CC9	0B00	4815	C0C4
2630--2630	680F	COFF	6841	0A00	6116	54F4	5A00	25CA	0000	08C2	0001	2674	0060	0000	0000	0000
2640--2640	C116	0112	18FD	0000	0A55	9800	008B	60FF	C92F	0131	181B	E8F7	C622	0121	1817	9925
2650--2650	0116	C201	9923	0113	C202	9921	0102	0D03	18F3	6622	C91E	6201	C91B	0864	6202	E8E3
2660--2660	C622	013A	0112	0D03	18FB	COFF	09FA	0132	60FF	18DE	C869	0113	C807	60FF	1CBE	68CF
2670--2670	C803	60FF	18C0	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
** **																
26E0--26E0	0000	0000	0000	0000	0000	0000	0000	0000	0000	4D41	4352	4F53	4D41	4353	4B4C	4D43
26F0--26F0	4352	4F53	4D43	4353	4B4C	4D43	3152	4F53	4D43	3153	4B4C	4D43	3252	4F53	4D43	3253
2700--2700	4B4C	4D43	3352	4F53	4D43	3353	4B4C	4D43	3452	4F53	4D43	3453	4B4C	0024	0B00	0802
2710--2710	5800	FE5A	C109	0114	0A01	6800	FE32	1810	C118	9800	FE2E	0131	1826	C118	6800	FE29
2720--2720	C11E	911F	0C02	0111	0C00	0D01	0814	6800	FE1F	2000	0060	6800	FE1D	0864	8000	7D28
2730--2730	6800	FE12	C800	FE15	2000	0060	6800	FE13	0864	8800	FE09	6800	FE08	C011	6800	FE06
2740--2740	6800	FE05	C400	7F6C	0101	1819	0C00	CA00	FF8B	0111	1814	9400	7F88	0134	CA00	FF84
2750--2750	6400	7F88	0D01	CA00	FF7F	9400	7F89	0134	CA00	FF7A	6400	7F89	0D01	18E9	C800	FDE5
2760--2760	9000	25F6	0842	3000	0060	680F	9400	7F88	9400	7F89	013A	C400	7F88	6800	FD36	C400
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27A0--27A0	6800	FD08	1C00	FF6A	1D71	C000	7D28	9000	27A4	0842	3000	0180	0111	0A01	09FC	0131
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27E0--27E0	6400	7F89	E000	0014	6600	7F73	0DFE	0171	18FB	1CBA	0A00	0C05	6600	7F6D	0DFE	0171
27F0--27F0	18FB	6400	7F6C	6400	7F88	6400	7F89	E000	0014	6600	7F73	0DFE	0171	18FB	C10C	09FE
2800--2800	610C	0112	5C29	0178	0DDF	0151	18FA	0D20	0DF2	0142	0D0D	1821	54F4	4C00	0000	0000
2810--2810	18FC	0004	2886	0AFF	0C05	6E0C	0DFE	0171	18FC	0A00	6116	54F4	4800	25CA	0000	18FD
2820--2820	0028	7D88	C8FE	6101	C116	0111	18FD	0112	0AFE	610C	5400	1EA8	0161	183F	4107	0C05
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2840--2840	7F6D	18E8	0112	5CE7	0161	1818	0DDE	0172	0DF4	0151	1813	0DFB	0161	18F4	0DEE	016C
2850--2850	0D07	0171	18EF	0D0A	C829	0104	C828	0121	4826	18E8	4823	18E6	0D41	4107	0844	E81F
2860--2860	0174	C81C	481B	2000	000A	8818	802F	6400	1FEF	E107	0171	18C0	0A00	6115	6112	6138
2870--2870	D400	7F6B	C000	5555	6105	0A30	0C04	6331	0DFE	0171	18FC	1400	1D71	0000	FFFF	0000
2880--2880	004C	0050	0058	0043	0053	004D	4F50	5449	4F4E	5320	5400	1EA8	0DC2	0141	1877	5CFB
2890--2890	4107	5867	C107	E84B	6AE8	D849	0DFD	0141	18F6	0A00	6844	5CEF	4107	0177	0DDF	0145
28A0--28A0	0DF3	0143	0D1F	0141	1861	0C00	CA39	0132	0D06	18FC	C8D2	0FC8	B8D1	6A32	6A34	C8CF
28B0--28B0	0FC8	68CD	CA2E	A00A	B8CA	6A2B	CA2D	A00A	B8C6	6A2A	C107	09D3	0114	0DE7	0161	18CF
28C0--28C0	1845	E000	28DF	5800	FD68	0C00	CA19	0134	0112	0D03	18FB	183A	0C00	COFF	68AE	40FF
28D0--28D0	CA0F	0139	CA0E	6500	7F73	CA0C	6900	FDFC	0D03	0DFF	18F5	C8A1	60FF	188E	0000	FFFF
28E0--28E0	2052	4F53	2020	2053	4B4C	FFFF	2052	4F53	0B00	2053	4B4C	FFFF	2052	4F53	2020	2053
28F0--28F0	4B4C	FFFF	2052	4F53	2020	2053	4B4C	FFFF	0B00	017A	0DCF	0178	0DF5	0161	1CF9	0DF8
2900--2900	0173	0DE5	0161	1CF4	1801	54F4	4C01	0000	0000	18FB	0007	2914	54F4	4C01	0000	0000
2910--2910	18FC	0007	2914	14EA	4720	4F50	5449	4F4E	2045	5252	4F52	0000	0000	0000	0000	0000
** **																
2970--2970	0000	0000	0000	0000	0000	0000	0C02	0143	0FC1	0DFE	18FC	41F4	B14A	614A	C1F0	09EF
2980--2980	0101	JCRB	61F0	5400	1E7F	5400	1E78	5400	2771	0A00	614A	C1F4	0111	1CAF	18C6	0A00
2990--2990	0C06	6356	0DFE	0171	18FC	5837	6162	180E	0C01	D167	5400	1FB8	C16D	0104	09F3	0102
29A0--29A0	5C2E	18FA	6161	6162	1807	5835	6161	E16D	0142	0DF3	0152	1800	0081	0DE9	0143	0DFD
29B0--29B0	015A	0C01	415C	5819	6156	5825	E15C	0154	0822	0D9B	0171	18DC	E156	0161	0864	E15C
29C0--29C0	6357	C16D	0102	09F3	0111	1837	09E9	0113	0142	0822	18E7	18CC	0000	5400	2181	09F4
29D0--29D0	0107	09FD	0112	0AFE	1CF7	C16C	09FE	616C	0A00	1CF2	0000	0A00	615D	6165	5CEF	E165

D D T F 7T L D G
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 KLMC3CROSMC3SKLMC4CROSMC4SKL \$
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 X5 B R C
 Z A X VX% T " V
 W 7 B " T !
]

J	00	11	22	33	44	55	66	77	88	99	AA	BB	CC	DD	EE	FF
8150--8150	C622	A00A	0116	E201	FOEB	C622	A011	6622	14B9	E201	FOEB	C622	0500	A011	0400	B032
8160--8160	6622	14B9	E105	0500	C622	0F49	A007	09F6	0102	0844	6202	C106	A031	0102	C107	1809
8170--8170	C106	A02B	0101	0814	A011	8032	8107	A011	0500	6C00	FF33	481A	E0B8	COEF	6204	C0B9
8180--8180	6203	COFF	6202	0D05	40B8	E104	40EF	C6B7	A400	0155	0821	E4FF	0814	A011	64FF	C806
8190--8190	5400	8D23	5550	01A0	0E04	09E5	E000	0001	0151	1814	0822	54BC	E600	0368	C208	E105
81A0--81A0	0F44	A009	0992	0138	09FA	0126	C622	A000	C1FF	B000	0C00	6622	0814	1400	81B3	8054
81B0--81B0	0500	0400	1CFC	0822	C108	0133	0A06	8103	6103	C622	A800	0082	6104	C107	0400	0112
81C0--81C0	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
** **																
8200--8200	0001	0500	54BB	000A	E8FB	4103	4105	0A01	68F7	C201	6106	0400	C400	7FFF	6109	0842
8210--8210	5C3B	E103	C622	6104	0131	1810	A011	0802	4108	6105	D103	0822	C201	6106	C622	6104
8220--8220	0127	B032	6622	0A09	1806	0A00	6108	C104	0F49	A007	0FF0	4107	EA02	1622	8378	8378
8230--8230	8378	8247	8378	8242	8378	8242	8C0E	8297	108E	8242	872F	8242	8426	8C0E	8437	108E
8240--8240	8297	832D	E109	5C0F	0500	E103	4804	54BA	0400	1C01	133C	8374	0317	E0B8	0DFA	0500
8250--8250	C204	0FC1	0F41	60EF	C8F7	0900	0107	CCF4	A006	0821	90EF	0102	0131	1812	C203	6C35
8260--8260	C202	60FF	C204	A032	01A0	0102	0A10	8011	40B8	C201	E0EF	E6B7	0811	E4B8	0E04	080A
8270--8270	40EF	C6B7	0821	E8D8	C202	68D6	0814	981E	0138	981D	0126	C0B4	6202	40B4	C201	6C15
8280--8280	J811	C622	A031	0102	C201	1809	C622	A02B	0101	0814	A011	8032	8201	A011	6C06	0844
8290--8290	6202	0814	E203	0E04	0104	0303	0064	0822	C108	0132	D103	D103	C106	6107	C104	6106
82A0--82A0	A006	6104	C106	0F49	A007	09ED	0105	C107	0125	C106	A031	0112	C107	1846	COEF	9104
82B0--82B0	0122	1800	0092	C106	0F49	A007	09F6	0102	0500	181C	C106	A031	011B	C106	A02B	0108
82C0--82C0	8106	6106	0814	A011	8032	8107	A011	6107	0500	E0B4	0D00	0152	5400	0185	C202	60B4
82D0--82D0	4105	C106	6622	C107	6201	C4FF	6203	0500	E000	824C	0DFD	0400	4106	0800	0500	C202
82E0--82E0	0900	0106	0822	C622	A006	9104	0131	18F3	E106	C202	E105	6202	0814	E106	6202	C4FF
82F0--82F0	A011	64FF	14B9	A011	80EB	0500	6105	C622	0F49	A007	09F6	0104	09F6	0102	0A00	6202
8300--8300	E105	C202	0102	1400	8E7A	C622	0122	1400	8E7A	A016	8104	6622	0F49	A007	010C	0804
8310--8310	6202	0400	COEF	9104	0125	C622	6106	C201	6107	182B	18BA	C4FF	6104	5400	8406	C104
8320--8320	6203	C622	A000	00F0	6104	C622	A031	0102	1400	894D	0C01	1400	83BA	0822	C108	0132
8330--8330	D103	D103	C622	A00A	0116	E201	FOEB	C622	A011	6622	14B9	E201	FOEB	C622	0500	A011
8340--8340	0400	B032	6622	14B9	E105	0500	C622	0F49	A007	09F6	0102	0844	6202	C106	A031	0102
8350--8350	C107	1809	C106	A02B	0101	0814	A011	8032	8107	A011	0500	6817	4817	E0B8	COEF	6204
8360--8360	C0B9	6203	COFF	6202	0D05	40B8	E104	40EF	C6B7	0821	E4FF	0814	A011	64FF	C805	01A0
8370--8370	0400	1400	8A9F	8A9C	8211	0500	0400	1CFC	0822	C108	0133	0A06	8103	6103	C622	A800
8380--8380	0080	6104	C107	0400	0112	E0C2	1804	5800	007E	54BC	4107	EE34	C208	E108	0F05	A005
8390--8390	09FD	0119	0178	E105	C622	A031	0112	C205	0132	D103	D103	E107	F000	039F	0DFD	0500
83A0--83A0	4106	E202	0D00	0151	1808	C622	A85A	9104	0133	E106	E202	18F4	E106	C202	E105	6202
83B0--83B0	0814	E106	6202	0400	E107	5400	8BF9	0148	1839	4C2C	2020	2044	4F57	4E20	0383	0367
83C0--83C0	0500	E107	0AFF	6E3E	CEF9	A02F	0101	1817	C107	5400	8B84	E80B	0141	1811	68EB	C000
83D0--83D0	4C20	80EF	6802	54F4	0000	0000	0000	18FC	0005	83B9	E107	CEE2	B02F	6EE0	E105	C203
83E0--83E0	A00F	801F	6203	C201	0112	6202	180A	C622	B032	6622	0500	4804	E203	54F4	2000	0000
83F0--83F0	14B9	EED0	0500	C205	011A	C107	0400	6205	0500	4803	54F4	2000	03E9	0500	0173	14B9
8400--8400	00F0	039F	F011	0A00	6205	81D	8389	0500	C4FF	A011	64FF	C202	0114	0804	6202	0400
8410--8410	1CF5	54BC	EEAC	C208	E108	0FC5	A005	09FD	0119	0178	E105	C622	A031	0112	C205	0132
8420--8420	D103	D103	C4FF	B032	64FF	14B9	0822	C108	0135	0A05	8103	6103	0804	6108	5400	8406
8430--8430	C622	A000	00F0	6104	54BC	1400	838A	0822	C108	0134	D103	D103	0804	6108	C106	6105
8440--8440	J400	821B	838A	0500	4815	C203	A00E	0C00	0FE6	0F46	A01	1809	1802	1804	E80B	0834
8450--8450	1802	A00C	0822	C622	0822	0161	F011	0400	1CE9	1345	9449	0500	48FC	C622	A031	0106
8460--8460	0814	0905	6800	FFF5	ECF4	1819	C622	A02B	0101	0814	6817	0121	B032	E205	0162	0834
8470--8470	1803	C8E7	0905	A011	68E4	CCE3	0131	8032	E809	0161	F011	0832	0161	F011	C8DA	0400
8480--8480	1CD9	1350	8A3A	0500	48D4	C622	A031	0102	E204	180F	C622	E204	0169	A02B	0103	C8C9
8490--8490	0121	B021	0832	0161	F011	E622	0161	F011	0400	1CE8	8C26	0500	48BC	C622	A031	0102
84A0--84A0	E201	1810	C201	0139	C622	A02B	E201	0107	C8B0	0131	8032	0832	1803	80EB	0822	0161
84B0--84B0	F011	0400	1CE7	010E	01FC	480B	E8FC	0DFD	E622	442B	E000	0102	44F8	E803	1400	84DE
84C0--84C0	0000	0488	E0B8	6201	COEF	A011	01B1	B032	6204	COFF	6202	40FF	0D05	40B8	E8E4	0DFD
84D0--84D0	C622	6103	40FF	E202	40EF	C6B7	0400	0821	E103	1622	0102	01E2	01CE	184D	6821	C400
84E0--84E0	8E44	0116	C400	8E58	0113	0500	5400	0185	C817	1C01	824D	0500	COF5	0901	680F	0844

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 " T " 4
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J	00	11	22	33	44	55	66	77	88	99	AA	BB	CC	DD	EE	FF
84F0--84F0	680E	CC0D	01CD	D80B	C80A	B808	0101	18F9	E000	4453	C00D	413F	1807	0000	0000	0000
8500--8500	C8FD	642B	584C	01A0	4824	6824	E000	0091	C02B	03FE	0A00	60FF	C917	E000	0090	0FC8
8510--8510	03FE	0FC8	03FE	D0FF	C0FF	09F8	0101	18F4	C807	0500	B032	0900	0103	E02B	1C01	7FFF
8520--8520	0500	5400	0185	0P0A	5041	5249	5459	2C20	3030	3030	0500	68P3	481D	0A00	01B1	0A01
8530--8530	681B	080C	681B	C422	681B	C001	6817	C000	1400	6422	C000	853E	6001	18FF	C80E	6422
8540--8540	C80D	6001	C806	B011	0101	1C03	5400	0185	7FFF	0000	0000	0000	0000	0000	0000	0500
8550--8550	0P22	5811	680E	580F	0FC8	880B	680A	580B	6809	5809	0FC8	8806	E804	0FF0	0400	1CEE
8560--8560	0000	0000	0000	0844	0F64	0FC4	09F5	0122	093A	1CF8	0941	1CF6	8204	44F0	E000	0303
8570--8570	0P52	F0F0	FCF9	0172	1400	8589	E0F0	6201	C0FF	6202	40FF	FCF0	40F0	DREE	E4FF	C101
8580--8580	1CEB	8248	E0FF	C202	60FF	C201	40F0	E622	1CF8	0841	E000	0091	C02B	03FE	E000	0090
8590--8590	0A4F	03FE	0A56	03FE	5400	0185	866D	482F	0902	682C	C600	093E	6828	8828	9400	8701
85A0--85A0	09FD	0132	0C0D	1CF2	C011	6822	E000	093C	4821	E201	0D00	0151	181E	40FF	C4FF	9816
85B0--85B0	0121	1811	0814	9811	0131	1805	84FF	980E	0121	1809	C4FF	980C	0131	1805	C4FF	6808
85C0--85C0	C809	6807	E0FF	18E4	1CB6	6349	0000	7FFF	093C	7FFC	C011	98FB	0101	0122	0CFE	1CC6
85D0--85D0	E8F7	C201	483A	683B	CC3A	683C	E838	C201	6838	C8EA	9834	0103	0132	09FC	0121	1810
85E0--85E0	0903	682C	E82C	4829	40FF	E8DE	4828	C101	6201	4101	CC22	9822	6C22	C820	6C1E	CC1F
85F0--85F0	98D4	0111	1811	09FC	0121	180E	0903	6818	E816	40FF	C8CA	6C13	F8C8	C812	6622	C101
8600--8600	6201	4101	480E	E809	C80C	6201	E808	0814	0902	6201	0822	1C8A	093C	6F52	10A8	009A
8610--8610	125A	024C	8767	4830	E000	093C	482C	C201	0B00	0900	0111	1806	60FF	9826	0122	E0FF
8620--8620	18F5	40FF	C101	0872	0151	181C	E81D	C101	6201	4101	C0FF	84FF	9817	0117	CC15	84FF
8630--8630	64FF	C201	6101	C0FF	680F	E80E	0814	8C0C	9201	0117	C201	60FF	C4FF	8C06	6C05	C101
8640--8640	6201	1C0D	093C	10A8	FFFF	FFFF	40FF	54B5	1849	E106	C622	0F49	A007	09F1	0113	610A
8650--8650	610B	1832	4863	54BF	CC31	0104	CC5F	A006	09FC	0131	180D	C85A	E8E8	0B00	0141	6202
8660--8660	0151	68E2	68E2	0822	0804	6202	18E0	CC4E	0F44	A006	0FF0	5400	8596	0B00	0177	0158
8670--8670	E0E9	C20A	820B	0113	CC11	0111	1827	F032	CC3D	A01B	010B	0814	E839	6203	E800	0080
8680--8680	A01F	6209	40FF	54B6	18C2	86FB	0178	0814	E82D	6201	F021	4803	0822	54F4	9010	E870
8690--8690	18B5	EPB2	0D00	0153	0804	68AF	14EA	C202	68AB	0814	5C13	18F5	039F	C862	60FF	CC16
86A0--86A0	A006	09FC	0138	E0E9	C20A	820B	0101	1804	C858	0111	180C	C80A	5400	878D	0C01	CEEC
86B0--86B0	9805	0101	1894	6105	14EA	86F9	C104	0131	18F2	CC4A	0102	6C49	18EE	C0F6	90F7	09FE
86C0--86C0	6809	C0F7	0901	6807	54F4	4CF7	86DC	0000	08C2	6349	1CB6	0000	043E	5802	18DC	86CE
86D0--86D0	0A0D	6C33	C83A	6834	C839	0114	D837	54F4	5202	8705	D826	1CF3	C0F6	09FE	6823	E0F7
86E0--86E0	0D01	C400	093E	4CFE	681E	0814	0902	6201	C8E0	6622	5400	8612	E0F6	C8DB	0DFE	0600
86F0--86F0	09FE	0101	18FB	EP0C	40FF	C8D3	09FD	6806	54F4	5407	870E	FFFF	1CB8	6347	1869	03E9
8700--8700	0001	7FFE	10A8	8E45	8E4E	0844	6807	0B00	0B00	5400	099A	18FB	0B00	0000	C8BA	6808
8710--8710	C8B9	6807	54F4	4807	871C	0000	08C2	6349	1CB6	0000	043E	14EA	C8FE	68E9	C8E3	6CC2
8720--8720	C0F7	68DF	E8DC	C20D	6204	E0F6	C8A2	0DFE	0700	09FE	0101	18FB	0500	68D2	1839	C108
8730--8730	0132	D103	D103	E105	C622	A023	0102	C0EA	6103	C622	A031	0102	1400	8919	C106	012C
8740--8740	C622	A02B	0115	E106	C011	08B2	C622	1805	0814	A011	8106	A011	09FD	0822	9000	10A8
8750--8750	013E	0814	8622	0500	9800	FFAB	09FD	0127	0814	0902	9201	0113	C622	09FD	0122	1400
8760--8760	8E7A	54F4	5207	8765	14B9	5400	8612	E827	0500	C205	0101	14EA	0A01	6205	1800	FED6
8770--8770	1588	0500	54BB	0004	C8FB	0400	6103	CC8B	010E	09FE	6C88	011B	CC87	0109	0C0A	C6E9
8780--8780	0103	C000	87AD	6803	54F4	5207	8767	0500	C103	68E6	54BA	0400	1CE3	86AE	681E	CC1D
8790--8790	AR11	6811	E800	FF08	0DFE	0500	480D	E202	0D00	0151	180A	C622	A805	9805	0135	0104
87A0--87A0	18F5	00F0	0000	039E	E8FE	C202	E806	6202	0814	E8F9	6202	1CE1	86F9	5820	14EA	C622
87B0--87B0	A010	0F49	0116	4804	E201	54F4	6000	1072	0103	C201	0116	6202	C400	FFFF	0131	18ED
87C0--87C0	14EA	C522	6203	C622	A011	B032	6622	4804	E203	54F4	6000	0000	18EF	87AE	E84D	0D00
87D0--87D0	0157	4400	87BD	E000	094F	40FF	EC5B	1803	C844	60FF	0F61	0128	D0FF	DCF4	0171	F032
87E0--87E0	0D00	0151	1810	18F6	4837	0500	E111	0D00	0141	181B	0400	D0FF	DCE5	CCE4	09EF	0122
87F0--87F0	E82B	18E8	4829	0802	4CDD	0C0A	E8E9	0151	180A	C8DA	0910	60FF	0500	E111	0D00	0142
8800--8800	1800	006B	0400	1CC9	C202	6111	0400	4816	C522	8204	09FE	01A0	6810	5C08	093B	0900
8810--8810	0101	182E	0C01	C722	5400	8904	881C	0900	0115	0D01	18F8	0000	0951	1072	0814	09FE
8820--8820	8000	0F40	6802	C8F7	0F40	68F5	0814	8CAA	6CA9	E202	C0FF	98A8	8000	0FA0	6801	0FA1
8830--8830	C400	09P2	08B4	0101	1818	4122	CCFA	0874	6CF8	EC98	F899	48E0	ERE0	D88F	1CRE	COFF
8840--8840	0901	68DA	0844	6203	CCDB	A000	3E00	0112	1800	FF72	1800	FF77	ERD0	C622	A00A	0F44
8850--8850	681B	EC80	F881	48CF	0500	E0FF	090F	40FF	E202	0814	0900	0107	C622	A00A	0F44	980C
8860--8860	0132	0101	18F4	C8B9	6102	0FF0	0400	6202	E8B2	1800	FF6D	0000	C85D	0111	185D	C400

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PRF0--PRF0	5202	RE5B	1CF0	58EF	18CB	0383	0367	039F	8B0F	83B7	0500	0A0A	6810	014B	CEF6	0FC2	
RC00--RC00	0128	0F42	A00C	0822	C808	09FE	6806	0113	ER05	0400	1CEE	18F1	000A	000D	0822	C108	
PC10--PC10	0133	0A03	8103	6103	C622	0F49	A007	09F0	0114	C201	B032	0822	180A	C622	A031	0114	
RC20--RC20	C201	0122	0822	1803	C201	54BE	4107	E105	C622	A000	00C0	0102	5400	0185	C4FF	A011	
PC30--PC30	64FF	C622	A000	400F	8000	1200	0500	E0B4	0D00	0152	5400	0185	6622	C202	60B4	4106	
RC40--RC40	C107	6201	E105	C622	0F44	A004	0822	4107	CA54	E106	6202	0814	E107	6A4F	E105	C202	
PC50--PC50	E106	6203	14B9	00ER	C400	0F69	6R3C	0C00	4839	CA3E	0133	0103	09FE	6A3A	14EA	CA3A	
RC60--RC60	6A37	F000	RC9A	40FF	E102	0D00	0153	ER2A	0D01	18EE	C203	0103	09FE	6203	18F4	C823	
PC70--PC70	0119	C820	0111	18EF	C202	6102	C826	6202	4824	18EA	C201	6807	C622	6804	0FF0	E0E8	
RC80--RC80	54F4	5206	RCC2	0FF0	0121	1PEB	C80C	09FE	680A	C202	6102	0500	COB4	6202	40B4	0400	
PC90--PC90	18D3	0001	0005	0000	0005	0009	003B	0000	0002	0005	0001	FFFF	0313	0303	030F	FFFF	
RCA0--RCA0	0A00	6816	ER15	E600	03D7	0161	1R12	C204	0121	180C	09FE	6204	0131	1808	C602	6804	
PCB0--PCB0	C203	6R03	54F4	0000	0000	D802	1PEB	000A	C805	A016	8807	6802	54F4	501D	8CA0	000A	
RCC0--RCC0	14EA	000D	5806	54F4	5006	RCC2	001E	14EA	8CC3	0500	54BB	0007	C8FB	6103	C83F	6104	
PCD0--PCD0	CC39	6105	CC36	6106	0400	E0E8	0R14	9104	4104	8105	0842	3831	4105	8106	6106	09C3	
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PCF0--PCF0	2404	0093	CC14	281C	8C13	6C15	CC10	2817	8C0F	6C12	0500	C103	6814	C104	680F	C105	
RD00--RD00	6C09	C106	6C06	54BA	0400	1C0B	0F63	0F64	0F65	0F66	0F67	0F68	003C	0DAF	003C	0064	
RD10--RD10	RCC3	C870	8870	0101	14EA	D86C	54F4	4CE3	0000	0000	18FC	0002	8DC7	0AFF	0C23	6E0A	
RD20--RD20	0DFE	0171	18FC	54F4	48E7	8D32	0000	58FD	0025	0F34	54F4	5203	8D2E	14EA	C8F7	0101	
RD30--RD30	18FD	14EA	0162	1800	008A	C000	7FFF	B011	0108	C400	7FFF	0105	E8EC	54F4	5205	7FFF	
RD40--RD40	187E	CCE7	0F48	09D5	0104	1800	00C5	5AFF	8E58	C800	00F0	0101	186B	CC36	0101	1835	
RD50--RD50	CCF7	010C	0C01	EED5	CCD4	0FE8	98F0	0101	1845	6400	8E59	0A01	6CEB	182D	CCCA	9000	
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RD70--RD70	0108	54F4	6200	8D7C	0000	0000	000A	0010	14EA	54F4	1800	7FFC	E830	54F4	2400	000E	
RD80--RD80	14EA	0000	0000	8E44	0C01	EEA3	CCA2	0FE8	98BE	0117	COFD	6400	8E48	54F4	5202	8E5B	
RD90--RD90	182E	CC97	B000	2A48	0102	09F7	0116	ER15	D8E9	54F4	2403	002A	1822	CC8B	B002	2AFF	
RDA0--RDA0	0111	181D	ER0A	CC85	B8BB	0101	1811	D8DA	54F4	2403	0062	1813	0F34	C808	8032	0900	
RDB0--RDB0	0106	ERFA	D8CF	54F4	2447	008C	1808	54F4	4C00	0000	0000	18FC	0002	8DC5	0A00	68C1	
RDC0--RDC0	14EA	2A42	4154	4348	RE52	4A50	3035	4D49	0DFF	093E	8701	8700	19B5	17C1	D8B2	0400	
RDD0--RDD0	0C03	CEF2	0106	6803	54F4	1800	19B7	0A00	6EEB	0DFA	0171	18F5	0A00	6CA5	E0E9	C20B	
RDE0--RDE0	0101	18DC	C20A	0101	1814	0C01	CEE2	68E4	COF6	09FA	6EDE	54F4	5413	8DF2	0000	7FFC	
PDF0--PDF0	0000	14EA	C8D9	4800	FF86	0C01	6ED2	18C6	COF7	0901	6804	680E	54F4	5800	0000	54F4	
RE00--RE00	62F3	8E07	0000	0000	000A	0010	14EA	54F4	5800	0000	18B3	CCA0	9000	5245	0101	1813	
RE10--RE10	0C01	CE9A	0F48	09AC	011D	C825	0101	189F	6800	FF68	680E	FF65	DR1E	888E	54F4	2404	
RE20--RE20	7FFF	14EA	CC89	0F48	0900	0101	1886	C813	0111	188D	E000	8E20	F0EB	C201	680A	0A0F	
RE30--RE30	A622	8000	1200	6804	ER00	FF76	54F4	1207	0000	14EA	0000	181E	1A5E	19BC	19BF	19E4	
RE40--RE40	1A7A	1A96	1A79	19F9	0000	0000	0000	0000	0004	100A	100A	000A	000B	0009	0000	0000	
RE50--RE50	1784	FFFF	0000	0000	0000	0000	1432	1400	0000	0000	0000	C816	0116	0D05	0153	0CFA	
RE60--RE60	1809	0000	C8FE	011C	ERDA	C20C	0109	D8F9	0802	C8F0	D807	010A	6803	54F4	5202	1435	
RE70--RE70	14EA	0000	1830	75AE	0500	1CFC	54F4	2402	001C	14EA	C4FF	A011	B032	64FF	14B9	95C8	
RE80--RE80	0500	0132	0165	1808	0173	0852	0834	1805	0852	0834	0121	0804	0400	1CF1	0000	0500	
RE90--RE90	684B	C865	9867	0113	C847	0400	01C7	C8F6	6C5F	0814	E85D	6201	C83F	6202	080C	6203	
REA0--REA0	COFF	6204	0814	9000	8EF1	0104	0814	0905	684F	1804	C000	8EDD	684B	D849	C84C	0104	
REB0--REB0	C202	E201	0400	1CDA	D846	4846	0400	54F4	520D	8F16	0500	0162	0A00	683D	E83D	C622	
REC0--REC0	68CD	18EE	0000	6819	0C03	A006	09F5	0131	0907	093A	6A0D	0145	0DFA	C80F	0F44	680D	
RED0--RED0	18F4	0FC8	8806	E806	0F48	F805	1CEB	0000	0000	0000	0000	0000	0000	0000	0000	0000	
BEE0--BEE0	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	
REF0--REF0	0000	0000	0000	0000	0000	0000	0000	8EDD	8EDD	0005	0000	0000	2020	503D	2020	5050	
RF00--RF00	5050	2020	513D	2020	5151	5151	2020	413D	2020	4141	4141	2020	4D3D	2020	4D4D	4D4D	
RF10--RF10	2020	493D	2020	4949	4949	2020	0C00	0A02	60FF	CEDE	480E	58A6	69E0	DOFF	49DE	C809	
RF20--RF20	0901	0822	09FA	0105	COFF	0904	60FF	18F1	0000	54F4	4CDD	8F31	0000	18FB	001A	8EFC	
RF30--RF30	14EA	0500	E8C5	0814	9000	8EF1	0103	0814	0905	1803	C000	8EDD	68BB	E888	0DFA	48B6	
RF40--RF40	98B6	0102	0400	18D2	68B5	0400	14EA	0800	6800	0090	6800	008F	4800	008B	5800	00BE	
RF50--RF50	0A40	5800	00B0	0AC3	6800	0087	0A00	6800	0083	0CFE	C000	4142	586A	OCFE	C000	534C	
RF60--RF60	5866	OCFE	C875	5863	OCFE	C000	2052	585F	OCFE	C000	454C	585B	OCFB	C86A	5858	0A0F	

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8F70--8F70	AR6A	886A	0FC4	B868	0FC8	587A	D865	C864	09EF	0122	0CFD	18F1	5857	1822	0A00	685C
8F80--8F80	E85A	FR5A	CE5F	B85D	0101	181A	C854	8854	B850	0111	1815	D850	C84F	09EF	0121	180F
8F90--8F90	C84A	884A	684R	C84B	0101	1829	0A01	586B	0CC6	4845	C848	582B	D840	1820	18E1	0A01
8FA0--8FA0	5862	C839	5843	C837	9835	5840	0CFD	C830	581E	0A00	6831	6833	E82E	CE34	5837	D82C
8FB0--8FB0	C82A	B833	0103	C827	B824	0112	581D	180E	C823	09EF	D820	0121	18EF	5816	C820	0114
8FC0--8FC0	081C	C81B	0131	188C	18B9	18FF	0000	4816	6817	0FC8	5838	C814	5836	C812	D80F	E80E
8FD0--8FD0	0161	18F7	1CF3	0000	0A20	5833	1CFC	2020	8000	0000	0000	0000	0000	0000	0000	0000
8FE0--8FE0	0000	0000	2A2A	0201	FFFE	0000	68F9	5808	C8F7	0FC8	5805	C8EB	0CFE	58D8	1CF6	0000
8FF0--8FF0	0C00	0FE4	0FC4	A000	000F	0DF5	0161	0DF8	0D41	09F5	0121	09F8	0941	0FA8	0874	0CFE
9000--9000	58C5	1CED	0000	E8DF	0DFE	03FE	5807	1CFA	0000	E8D9	03FE	5802	1CFB	0000	E8D4	02FE
9010--9010	A000	000B	09F6	0101	18FA	1CF7	0B00	0500	1806	0317	824A	5950	AFF7	0003	68FA	48FA
9020--9020	88FC	0FC7	6832	C000	0100	0C01	582C	5830	0FF5	C000	2DFD	0172	C000	58FB	6804	C8EB
9030--9030	0842	3000	58FB	0FC5	683F	0814	0842	3000	001D	0FAA	0FE6	8838	6837	0841	C835	0C02
9040--9040	5812	5816	C8D9	0C00	580E	080A	0141	0C02	0D03	0A00	5808	580C	080A	0152	0801	18EE
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9060--9060	18F9	0FC2	0131	1CF3	18F5	0802	C8AF	9809	0108	CRAC	6805	C805	68A9	0400	1C01	0000
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90A0--90A0	C522	0F46	0121	0F42	A009	0822	6104	E600	0367	C20C	6108	C208	0F44	A009	6109	C208
90B0--90B0	0FC5	A005	09FD	0500	E0FF	4800	0078	0114	C104	B0C2	0111	182F	C874	09FA	0112	D872
90C0--90C0	1P14	C86F	2043	8000	9132	0822	C0FF	0904	60FF	0AFA	6863	D865	C522	6622	D85F	C85E
90D0--90D0	0103	D0FF	0D01	18F8	C85B	011C	D859	C857	6809	54F4	2404	009A	0500	C804	1805	0000
90E0--90E0	0000	021E	C84C	60FF	C103	6101	548A	688C	0400	1C8A	0A05	60FF	0C2C	A85E	685D	0DFE
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9100--9100	6800	FF72	C827	09F5	0101	D824	4825	E106	C622	A000	3E00	011C	C622	A031	8000	1800
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9130--9130	0001	0000	0006	DC50	044C	210E	A080	0000	0000	0000	0000	0000	0000	0000	0000	0000
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9170--9170	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0500	C8AA	09FE
9180--9180	68A8	2043	60FF	0C04	C8C6	6A53	0DFE	0171	18FB	0400	C84E	5C4B	6838	C84F	5400	854E
9190--9190	683C	0814	0C3D	0FE8	4837	0920	0FC8	E835	0FF8	4833	6833	C840	A00A	5C39	6823	C83C
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92D0--92D0	181D	1803	0A06	1802	0A05	E105	0FA6	0874	610D	C031	B108	6108	58C7	C105	0111	14EA
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	00	11	22	33	44	55	66	77	88	99	AA	BB	CC	DD	EE	FF
9310--9310	5400	8A6D	54B6	1800	FF5F	0A01	A109	0101	1822	0A02	A10C	0102	1800	0093	E107	0A02
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9330--9330	0141	18F6	18D6	C109	A008	B000	81C0	6109	0A0C	180E	0A02	A109	0822	0A10	A109	0119
9340--9340	0A10	0151	0A30	B109	6109	014E	0A0D	1800	FF4C	014A	0A20	A109	0117	585A	C858	0920
9350--9350	B109	6109	0A0A	18F3	C109	A850	0108	C109	09BF	6109	584D	1802	0A7F	1800	FF36	C109
9360--9360	0121	18C3	A026	0101	18A4	E10A	E622	0A04	A109	0111	0F28	0A7F	08B6	09FC	0111	1899
9370--9370	0814	0112	0A7F	0C7F	09F2	0114	5831	C82F	0920	1808	0901	0104	0901	0102	0902	0113
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9390--9390	0109	0A04	B109	6109	A025	0118	D10A	C10A	910B	0114	0A08	B109	6109	1805	C806	0102
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93B0--93B0	0DFE	0A00	020A	610F	C111	011B	C10F	710F	0118	0A03	1800	FF19	1803	1800	FF13	1800
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93D0--93D0	0A10	A109	0101	181F	0814	099E	0133	09E5	0121	0DDF	0A04	A109	0113	0AFF	0FF8	1805
93E0--93E0	0814	B01A	E10A	A622	E10A	6622	C10A	910B	010D	0A04	B109	6109	A025	0114	D10A	C10A
93F0--93F0	910B	0101	18A8	0A02	A109	0115	0A08	E107	03C3	18A4	003C	0A10	B109	6109	18F3	0A20
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9590--9590	E107	0A02	0301	0800	0201	0B00	610C	E02D	0FCF	0128	E01F	1807	0A05	18F1	40FF	E01F
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9610--9610	1800	FF8A	0000	0000	000F	000E	000D	0008	000B	000A	0009	0006	0005	0011	0013	0003
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9650--9650	0960	610B	C127	B10F	0106	C10F	6127	E000	0230	1800	FE15	C111	610F	C121	A02C	0111
9660--9660	1817	E120	0D9F	016D	D120	C38C	E11E	6622	D11E	C11E	E11F	5400	8E7F	0132	1800	FDE9
9670--9670	18F0	D10F	C11E	610A	C11F	610B	1805	E11E	C622	E120	0D9F	016E	D120	638C	D11E	C11E
9680--9680	E11F	5400	8E7F	0115	0C2E	C11D	610A	1800	FDEA	18ED	E000	0262	18F8	D111	C111	610F

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96E0--96E0	E0FF	4R03	54F4	6000	96E4	14EA	40FF	5801	0000	C8FE	09FD	6201	8812	6800	00C8	8810
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9710--9710	0168	C11C	6800	0144	54B5	18ED	C10B	910A	6115	E106	C622	A000	1C00	98FE	0111	182A
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9840--9840	D120	1CE5	C224	6112	C225	6113	C202	6114	1CDE	0B00	6R0C	E0FF	4893	0C00	5800	FEEE
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9A00--9A00	C000	9D2D	6203	C217	0R22	90FF	0101	18F2	40FF	C000	0000	0103	14EA	99D3	0000	68FE

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9A20--9A20	54B5	1810	E0FF	48E6	0C00	0A01	5800	00C1	E106	C622	0F49	A007	09F1	0112	1800	032C
9A30--9A30	1819	C117	60FF	B8D6	0105	C108	A031	0111	18D9	18F7	0844	68CE	6113	C000	1826	6894
9A40--9A40	C808	0112	1400	A05D	14EA	0A1F	1800	02EA	0000	C10B	E10A	5400	8E7F	681B	09FD	0137
9A50--9A50	0106	C108	0F44	A009	09C9	0102	180E	18ED	E10A	4800	0080	C10B	687F	0A04	687B	C109
9A60--9A60	A023	0101	183A	183D	C119	6P75	C118	9000	0060	012A	C109	A024	0103	C118	68F9	1805
9A70--9A70	C8F7	5800	0422	68F4	C109	A026	0116	C8F0	2025	3004	0141	0901	68EB	C85D	88E9	685C
9A80--9A80	C109	A023	0119	0A04	6855	C109	A026	0103	0A02	6850	0A00	1815	0A04	684C	C109	A026
9A90--9A90	0115	C849	E849	5800	0428	1807	C844	E844	5800	040E	0A02	683E	5800	0214	6116	0A01
9AA0--9AA0	6838	C838	584A	0FCF	0132	1800	00AE	C109	A023	0102	5800	0355	ER2C	CA29	6818	ER2B
9AB0--9AB0	0DFE	4811	C622	680D	CR27	0500	6622	0814	E107	0D02	0312	0211	981E	0121	18FC	C000
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9AD0--9AD0	EPF1	6622	1800	025F	0A05	18F8	0108	0098	0000	0004	13F2	1452	0000	0000	9821	F107
9AE0--9AE0	0202	1CFE	1804	0A06	1800	024C	0A05	18FC	9AFD	F107	03F7	1CFE	9AA3	8110	A000	9FFF
9AF0--9AF0	680F	C000	1002	610F	0C00	58E8	A10F	0101	1808	C806	A011	0C01	58EB	5815	1CED	044C
9B00--9B00	E0FF	54F4	5203	9B05	14EA	40FF	0C00	58D6	A10F	0101	18F5	E0FF	54F4	520A	9B10	14EA
9B10--9B10	40FF	18E7	9AFE	0C01	58C9	A00A	0842	0FE9	0FA3	0FE5	0F21	0F62	0FA2	0874	610C	0C00
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9B30--9B30	0A02	0C00	58B5	0C02	58A9	68A7	0AFF	6104	C109	0FCA	0121	1815	C8A0	E89D	489D	689B
9B40--9B40	E899	5400	8E7F	0104	0123	0A25	1800	01EA	E892	C892	5400	8E7F	0103	0900	0111	18F5
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9BD0--9BD0	5400	8A6D	5486	1800	FE4B	0B00	5400	8E7F	09FD	0101	0121	D8F9	1CF8	6800	00BF	C10C
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9C40--9C40	C110	A031	0119	584A	5866	0FC8	0125	587B	0844	5879	5878	18F3	CR9A	09CD	0111	18C0
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9C60--9C60	CPA5	6800	FE75	CRA3	6800	FE74	CPA1	6800	FE72	C116	6114	5846	6116	583D	5800	00AE
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9C80--9C80	6108	1800	FF4D	C800	09FC	0131	18A4	C800	FF7C	09FD	0101	1884	18AF	0B00	4800	FE48
9C90--9C90	5801	0B00	0152	0A0F	1802	0A17	88FA	6800	FE41	8A05	6800	FE3F	1CF0	0000	0008	0002
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9CB0--9CB0	1CF9	0B00	C800	FE27	09FE	9800	FE23	0822	09F7	0131	0C07	0844	8E00	FE1C	0142	0DFE
9CC0--9CC0	18FB	1CEB	0B00	0102	CR2F	1802	CR30	E000	0173	4113	5800	0095	CR38	A109	6109	1CF2
9CD0--9CD0	0B00	C800	FE06	09FD	0111	0A04	6800	FE01	1CF7	0B00	C800	FF2C	6800	FDFD	1CFA	0000
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9CF0--9CF0	18F5	68FA	C10C	0FC1	0131	180D	58D9	58CA	58E0	58B0	5823	181F	58C5	58DB	58AB	581E
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9D10--9D10	18CF	CRCD	0123	0FC1	68CA	18CD	CR86	0C00	4113	1818	0A0F	6881	18C3	0B00	C10C	0FC7
9D20--9D20	0121	D8FB	1CFA	0B00	C10C	0FC5	0131	1CFB	C8C3	0112	68B4	18E1	18DE	C800	FCDB	60FF
9D30--9D30	0844	6112	0A00	6800	00B8	0400	C108	8031	6108	C109	A028	0108	B109	6109	A029	0107
9D40--9D40	B109	6109	C800	FD04	09FE	6800	FD01	E107	0A01	0301	0B00	5400	8A6D	E112	0FAA	F105
9D50--9D50	0FA6	5400	9074	C105	B111	0108	54F4	520A	8A9B	1800	FD06	E106	C204	5803	1800	FE72
9D60--9D60	0000	6112	C109	8028	6109	C112	0136	A006	6818	C112	A016	6112	1807	A00E	6800	007D
9D70--9D70	C112	A01E	6112	C112	0F4C	A005	680B	09FB	0864	A023	0FCF	0904	5800	FD6E	E803	1A03
9D80--9D80	0000	0000	1821	1854	1849	184A	1854	180A	185A	185B	0189	0289	0401	0401	0309	0389

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A490--A490	FF76	0000	0000	C01F	68FD	0844	68FA	0AFF	58CA	58AF	5828	18F3	C8F4	B043	0102	D8E1
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A4B0--A4B0	58B2	5818	5896	5895	5894	580D	18D8	C8DA	0123	0FC1	68D7	18D9	1800	FEEA	0A0F	6800
A4C0--A4C0	FF45	18CD	0B00	C10C	A000	0160	0101	D8FA	1CF9	0B00	C10C	0FC5	0131	1CFB	C8C2	0112
A4D0--A4D0	68C1	18E2	18E0	40FF	E000	0015	0832	4101	E000	01DE	0832	4800	01CD	E000	02B1	0832
A4E0--A4E0	4800	02A9	E000	0284	0834	6800	02A5	18Q2	40FF	C800	0173	0101	14EA	E0FF	4800	016E
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A510--A510	485A	0FC4	0123	0C01	4800	028C	C10C	A000	F401	B024	610C	0FC5	0131	1819	0FCB	0122
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A660--A660	A233	B223	610C	1CFA	0B00	C800	011E	0138	C800	FF01	0C03	0101	1CF7	58F0	0A03	184D
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A6E0--A6E0	C204	012E	0822	A00E	09FE	0122	0A3C	18EA	68F2	0814	A000	7000	0FC4	68EC	0822	1824
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A700--A700	18D2	B031	610C	C8D6	A016	68D4	1809	E8D3	0176	0151	181B	0DFE	48CE	E8CC	1805	C8CA
A710--A710	0842	0FE4	68C7	0DF7	0172	0A3C	18BB	1A09	180D	1823	1845	181D	181E	1804	1805	1800
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A750--A750	583C	5856	C834	09FE	0114	0A0B	584C	585A	18AE	C10C	0FC4	0122	0C01	4843	18A8	C10C
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A800--A800	C800	FF84	09FE	0107	0C01	489A	5893	1811	0FC3	0121	180E	0C0B	5895	0C00	4891	588A

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AP10--AR10	5RA7	5R95	C10C	0FC4	0123	5R9B	0C0B	588A	1R00	FEED	40FF	E000	009A	0R32	4103	E000
AR20--AR20	009D	0R32	4500	0002	E000	0027	0R34	6101	1R1A	AD5D	B021	6109	C111	0B42	0FE4	0147
AR30--AR30	6111	0DFD	0145	0DFD	0141	1R6F	4110	1R4E	4110	C109	B021	6109	0A40	5R00	0117	1R00
AR40--AR40	0154	40FF	54B5	1CE5	E107	0A01	034F	5846	A02B	0101	5815	0A00	6111	610F	6114	E106
AR50--AR50	C622	0F49	A007	09F1	0119	610A	610B	C204	0122	A000	7000	A016	6111	1RCE	1R6E	0000
AR60--AR60	5R17	0R42	CA00	0158	0FC8	580A	0FC8	5808	0D01	C000	FF6F	0R34	0101	1R4F	1CF0	0000
AR70--AR70	5R00	00E4	6R04	5R04	C802	1CF9	0000	0000	5R15	0FCA	0134	0FC2	0131	1R4A	1CF8	0FCF
AR80--AR80	0132	0A02	1R17	0A03	1R15	5R08	E107	0A01	030D	5400	8A6D	54B6	1R85	A886	4R06	E107
AR90--AR90	0205	610C	E802	1CF9	0201	1R03	0A06	1R02	0A05	E105	0FA6	0R74	6111	C020	B10B	610B
ARA0--ARA0	E107	0201	0B00	610C	0A01	0301	0B00	5400	8A6D	0AFE	6104	E111	C117	9105	0104	5400
ARB0--ARB0	9074	1400	8A9B	1R07	40FF	0A00	1R8E	40FF	C104	0132	C105	0115	E107	0A01	0301	0B00
ARC0--ARC0	14EA	0AFE	6104	5RC9	E107	0A02	03CE	0A20	A10C	0102	0A02	1RCD	C109	0122	1R00	FF5A
ARD0--ARD0	0R44	6112	0A20	A109	0101	1R26	0A20	B109	6109	A024	0112	6111	1R23	C113	A00A	9105
ARE0--ARE0	0102	0A01	1R4F	5R7A	0R9F	0112	0A31	1R06	0R9E	0112	0A30	1R02	0R0D	0R04	0111	1R8B
ARF0--ARF0	0R9A	0112	0A02	1R8E	0R9E	0101	1R8A	0A40	1R8E	1R9B	1R9B	0A04	A109	0101	1R8E	C115
A900--A900	0134	C111	0R8F	0112	6110	1R14	0R3F	0103	0R9E	011F	D110	D110	C110	9115	013A	0A00
A910--A910	6110	C105	9113	0105	0A40	6111	1R8E	1R8E	1R8E	C111	5R3B	0A01	6111	C114	0105	0A20
A920--A920	5R00	0R85	D114	1R8F	5R39	0R0F	0135	0R0R	0142	0R20	5R7C	1R8F	0R05	0111	1R45	0R0E
A930--A930	0111	1R1D	0R01	0117	0A40	6111	C112	0R86	0R00	6114	1R5A	0R01	0112	0A41	1R8F	0R02
A940--A940	0119	0R42	C112	3000	0N14	0DEC	0151	0CEB	4114	1R03	0R05	0115	C10B	610A	0A01	6111
A950--A950	1R44	0R01	0111	1R8F	1R8F	A9B6	4R06	E107	0DFE	03BD	ER02	1CF9	0031	A925	C10A	910B
A960--A960	0131	1R2D	0A10	B109	6109	A027	E10A	E622	0105	0R44	0FER	A009	0R22	1CFE	0R14	D10A
A970--A970	1R4A	1R45	1R45	5R9E	0R9F	0121	1R4D	0111	1R06	0R9E	0111	1R02	0R9E	0112	0A02	1R8F
A980--A980	0R9F	0113	6111	610F	1R13	0R01	0131	1R9C	E112	0R52	0D00	4114	0R4C	1R81	0A04	B109
A990--A990	6109	0A02	A109	0103	0A3A	E10F	0151	0A19	E107	03D7	5R00	FEF1	A024	0103	0A1E	6104
A9A0--A9A0	14EA	E10F	0141	1R4A	1R00	FF1B	A92B	1R0D	C109	A024	010B	C112	9116	0115	C10A	910B
A9B0--A9B0	0131	1R0C	1R8E	1CF2	0R22	5R9F	D112	0R9D	0101	D10F	1R8D	3031	3233	3435	3637	425A
A9C0--A9C0	2C2F	3R39	4143	2R47	4R29	5249	464C	4D4E	4F50	5R25	225D	4455	5354	5657	5R59	2B2D
A9D0--A9D0	2E45	4A4B	512A	3031	3233	3435	3637	2440	273D	3R39	4143	425A	2C2F	5249	464C	4D4E
A9E0--A9E0	4F50	2R47	4R29	4455	5354	235C	5E21	2B2D	2E45	5657	5R59	3031	3233	3435	3637	4A4B
A9F0--A9F0	512A	3R39	4143	263F	3C3E	5249	464C	4D4E	4F50	425A	2C2F	4455	5354	2R47	4R29	2B2D
AA00--AA00	2E45	3A3B	5F3D	3031	3233	3435	3637	5657	5R59	3R39	4143	4A4B	512A	5249	464C	4D4E
AA10--AA10	4F50	5R25	225D	4455	5354	425A	2C2F	2B2D	2E45	2R47	4R29	3031	3233	3435	3637	2440
AA20--AA20	273D	3R39	4143	5657	5R59	5249	464C	4D4E	4F50	4A4B	512A	4455	5354	235C	5E21	2B2D
AA30--AA30	2E45	425A	2C2F	3031	3233	3435	3637	2R47	4R29	3R39	4143	263F	3C3E	5249	464C	4D4E
AA40--AA40	4F50	5657	5R59	4455	5354	4A4B	512A	2B2D	2E45	3A3B	5F3D	40FF	E000	0010	0R32	4103
AA50--AA50	E000	0087	0R32	4102	E000	0013	0R34	6101	1R07	1400	AD5D	40FF	0A00	1R73	40FF	54B5
AA60--AA60	1R8F	0A00	6117	6116	610F	611A	E106	C622	0F49	A007	0R9F	011A	610A	610B	C204	0122
AA70--AA70	A000	7000	A016	6117	1R00	016R	1R00	0140	C031	B10R	610R	C02B	611R	0FC3	610C	1R52
AA80--AA80	0112	0A20	1R4C	4113	0R22	0A00	0FA7	0161	0R97	0FA1	0161	0R62	0FA1	0161	0R63	0FA1
AA90--AA90	0161	0R64	0FA1	0161	0R65	0FA1	0161	0R66	0FA1	0161	0R67	0FA1	0161	0R1R	0FA1	0161
AAA0--AAA0	0R79	A000	FF8F	0FA5	0161	0R70	0FA1	0161	0R60	0FA1	0161	0R50	A039	0C00	0FE9	0151
AAB0--AAB0	1R16	E112	C622	0FC8	0R9F	0112	0A7B	1R15	0R9B	0112	0A7B	1R11	E111	C110	A00E	B622
AAC0--AAC0	0111	1R86	0A01	611A	0A3F	1R07	0FE6	EA00	01C2	0111	0FER	0FER	A00A	E113	1A00	0197
AAD0--AAD0	1R1D	1R32	40FF	E107	0231	610C	0A02	032E	C104	0138	C105	0106	0AFE	6104	0A20	A10C
AAE0--AAE0	0102	1R0B	14EA	0A10	A10C	0101	1R21	0A0R	A10C	0101	1R05	1R13	0A02	1R00	0149	0DFE
AAF0--AAF0	C109	0121	1R49	C112	9111	0R9F	0132	0A22	1R4F	020C	E112	6622	D112	E107	0A1C	0306
AR00--AR00	0A01	6104	14EA	1R00	011B	1R58	1R58	5400	922F	40FF	C109	0124	0R44	6R3A	1R00	00BR
AB10--AB10	C112	9111	0R9F	0102	0A23	1R07	E0FF	5R01	AR1R	C8FE	0R0R	6R03	54F4	520A	AB20	14EA
AR20--AR20	40FF	C111	6112	0A02	A109	0116	0A0R	A109	0101	1R30	1R00	00CC	0C9F	1R61	0R22	0A10
AR30--AR30	A109	0101	1R16	C110	0FC4	A016	0R74	0112	1R00	FF3E	1R0E	0222	E80B	0158	D809	0R22
AR40--AR40	C110	A00E	0R74	0112	6R03	1R2F	1R86	0000	0R14	A00A	A000	0050	0R9F	0111	1R11	0A08
AB50--AB50	A109	0117	0A10	A109	0116	C109	A036	0R02	6109	1R00	010R	0A0C	1R90	1R57	1R57	C109
AR60--AR60	A036	6109	0A20	0R84	0104	0AFB	A109	0R04	6109	0R14	0F4R	A00A	0104	6117	9114	0113
AR70--AR70	1R08	6114	1R06	E117	4114	0A09	1R00	FF75	C114	0R01	A00A	6114	0CEF	1R11	0R22	0A10
AB80--AB80	A109	0101	1R21	0A10	B109	6109	0175	C114	0R9E	6114	0A0A	1R8A	4115	0C14	4113	E10F

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 ,/89AC(GH)RIFLMNOP[?]DUSTVWXY+-
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 OP(GH)DUST# @!+- .EVMXY01234567JK
 Q*89AC?<>RIFLMNOPBZ,/DUST(GH)+-
 .E;: =01234567VWXYZ89ACJKQ*RIFLMN
 OP[?"]DUSTBZ,/+- .E(GH)01234567\$@
 '=89ACVWXYZRIFLMNOPJKQ*DUST# @!+-
 .EBZ,/01234567(GH)89AC?<>RIFLMN
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AB90--AB90	1A01	C112	0R22	9111	09AF	0111	1R21	C622	E201	0FA4	0FE4	0C79	410F	0R22	F116	4116
ABA0--ABA0	E113	1AEC	0R22	C115	0112	0R14	1R46	C10A	910B	0104	0R14	E10A	6622	D10A	D115	C115
ABR0--ABR0	0101	1PDB	0C5E	1PDA	1P5E	0A06	1RBF	E0FF	C4FF	6R0B	5R01	ABBB	CRFE	0R0C	6R07	R000
ABC0--ABC0	00R4	6R00	00R7	54F4	520E	ABC7	14EA	40FF	C111	6112	5400	9200	40FF	C11R	0C00	411R
ABD0--ABD0	R023	E107	03E1	0A14	B02A	03DE	02DD	610C	1R00	FF26	C109	B021	6109	C117	0R42	0FE4
ABE0--ABE0	0146	6117	0PFB	0143	0PFE	0142	1RFB	1R3R	C109	B021	6109	1RCB	C116	010R	0A04	A109
ABF0--ABF0	0115	C114	00FE	6114	0A04	1R42	1R29	C10B	910A	0109	0C6E	1R92	E10A	6622	D10A	C10A
AC00--AC00	910B	0107	1RFB	0C77	1R89	A016	B006	E10A	6622	1R16	E112	C201	E202	0FA4	0FE8	E000
AC10--AC10	00R3	1RRA	0A05	1R24	E112	0R14	0904	6112	C203	0FC4	E202	0F64	0C00	1R00	FF7D	C109
AC20--AC20	0121	1RBR	0A01	E107	03RFB	02RE	0R22	C10C	A02E	0R34	610C	0A00	1R2E	C11A	0102	0A0R
AC30--AC30	1R07	5400	922F	40FF	54B6	1R00	FE2R	E105	0FA6	0R74	6119	C020	B10R	610R	0R44	E107
AC40--AC40	0201	0B00	610C	0A01	0301	0B00	E0FF	54F4	520A	AC4B	14EA	40FF	5400	922F	40FF	0A24
AC50--AC50	1R0A	E119	C105	911R	0104	5400	9074	1400	8A9B	1R07	6113	0AFB	A109	6109	5400	8A6D
AC60--AC60	E113	1ACB	E112	C622	0C00	1R0D	0FC8	B00A	E10A	6622	0R14	910B	0111	1R1A	D112	E112
AC70--AC70	C622	0C0E	1R00	FE0C	B01A	E10A	A622	6622	D10A	C10A	910B	010B	D112	C112	9111	09AF
ACR0--ACR0	0101	1RE0	0A02	A109	0112	1R00	FF30	0R44	6114	1R95	3120	3332	3534	3736	393R	3D26
AC90--AC90	3A27	223E	2F30	5453	5655	5R57	5A59	2C5C	252R	405F	4A2D	4C4B	4E4D	504F	5251	2421
ACA0--ACA0	5D2A	5E3B	412B	4342	4544	4746	494R	2E3F	5B29	233C	40FF	5R67	1R05	54F4	52F8	ACB1
ACB0--ACB0	14EA	40FF	5R52	0161	1R11	CA00	00R4	013C	0115	DA00	00R0	C0FF	6A00	007F	C4FF	0500
ACC0--ACC0	6R02	54F4	520A	ADC8	14EA	E800	00R1	4R00	007R	CA71	0105	5R32	CA6E	0102	1R00	00D8
ACD0--ACD0	5R00	0106	0AFE	6A67	C0FF	6A67	C10E	6A67	C10D	6R0R	40FF	2966	8967	696D	E96A	6A0D
ACE0--ACE0	C000	0000	6A09	C95B	6A0A	1A01	54F4	4RFB	AD1B	0000	0R2C	0000	0000	0000	0000	1R0A
ACF0--ACF0	54F4	4RFB	AD1D	0000	0R2C	0000	0000	0000	0000	E0FF	5R03	4R4C	14EA	AD0E	0D01	0R14
AD00--AD00	A003	0R22	6R3E	1CF9	AD65	0500	0C00	CA37	B10E	0113	4R36	0400	1CF7	5RFB	0101	1RFB7
AD10--AD10	0CFF	1RFB	AD5F	0500	E0FF	C0EF	09F7	0101	D8F9	0400	1CF7	0A00	1R02	0A01	0176	0R22
AD20--AD20	CA1C	60FF	DA1R	1R00	FF94	0R22	CA16	60FF	0A00	6A15	6A10	54B5	0B00	C109	B032	6109
AD30--AD30	E105	0FA6	0A1D	0R32	5400	9074	54F4	52F8	8A9B	1R24	0000	0000	0000	0000	0000	0000
AD40--AD40	FFFF	0000	FFFE	09B0	0F30	0000	0000	0000	0000	000A	09B0	0000	0000	0000	0000	0000
AD50--AD50	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	40FF	5R84	1R05	54F4
AD60--AD60	52F8	AD63	14EA	40FF	5R9F	0164	C0FF	6R02	14EA	06E3	CACF	4R0B	0105	09FE	6ACB	0102
AD70--AD70	1R00	FF49	E400	0367	4R00	FF6B	EEFC	C20E	B10E	0101	1R1R	C20D	B10D	0101	1R14	0500
ADR0--ADR0	C205	0106	C20R	0134	40FF	E8C1	DAB3	1RFB	C000	ACAA	6201	C000	ADFF	6202	C000	AE33
AD90--AD90	6203	0400	ER00	FF4D	0PFE	0141	1R0D	E *INTERRUPTED*								

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RO/12/15. 09.56.41.
PROGRAM LTMSOSE

AR10--AR10	5RA7	5895	C10C	OFC4	0123	589B	0C0B	58RA	1800	FEED	40FF	E000	009A	0832	4103	E000
AR20--AR20	009D	0R32	4500	0002	E000	0027	0R34	6101	1R1A	AD5D	B021	6109	C111	0842	0FE4	0147
AR30--AR30	6111	0DFD	0145	00FD	0141	1Rf6	4110	1R4E	4110	C109	B021	6109	0A40	5800	0117	1800
AR40--AR40	0154	40FF	54B5	1CE5	E107	0A01	034F	5846	A02B	0101	5815	0A00	6111	610F	6114	E106
AR50--AR50	C622	0F49	A007	09F1	0119	610A	610B	C204	0122	A000	7000	A016	6111	18CE	186E	0000
AR60--AR60	5817	0R42	CA00	015R	0FCR	580A	0FC8	580R	0D01	C000	FF6F	0834	0101	18F4	1CF0	0000
AR70--AR70	5R00	00E4	6R04	5R04	CR02	1CF9	0000	0000	5815	0FCA	0134	0FC2	0131	18FA	1CF8	0FCF
AR80--AR80	0132	0A02	1R17	0A03	1R15	5R0B	E107	0A01	030D	5400	8A6D	54B6	18B5	AR86	4806	E107
AR90--AR90	0205	610C	ER02	1CF9	0201	1R03	0A06	1R02	0A05	E105	0FA6	0874	6111	C020	B108	610R
ARA0--ARA0	E107	0201	0B00	610C	0A01	0301	0B00	5400	8A6D	0AFE	6104	E111	C117	9105	0104	5400
ARB0--ARB0	9074	1400	8A9B	1PD7	40FF	0A00	1R2E	40FF	C104	0132	C105	0115	E107	0A01	0301	0R00
ARC0--ARC0	14EA	0AFE	6104	58C9	E107	0A02	03CE	0A20	A10C	0102	0A02	1RCD	C109	0122	1800	FF5A
ARD0--ARD0	0044	6112	0A20	A109	0101	1R26	0A20	B109	6109	A024	0112	6111	1823	C113	A00A	9105
ARE0--ARE0	0102	0A01	1Rf8	587A	09F3	0112	0A31	1R06	09FE	0112	0A30	1R02	090D	09D4	0111	1R8B
ARF0--ARF0	00FA	0112	0A02	1R27	09FE	0101	1R8A	0A40	1R2E	1R9B	1R9B	0A04	A109	0101	1R86	C115
A000--A000	0134	C111	09BF	0112	6110	1R14	093F	0103	09FE	011F	D110	D110	C110	9115	013A	0A00
A910--A910	6110	C105	9113	0105	0A40	6111	1R8B	1R81	1R81	C111	583B	0A01	6111	C114	0105	0A20
A920--A920	5R00	00R5	D114	1Rf9	5839	09DF	0135	0R08	0142	0920	587C	1Rf8	0905	0111	1R45	090E
A930--A930	0111	1R1D	0901	0117	0A40	6111	C112	0R64	0900	6114	1R5A	0901	0112	0A41	1Rf6	0902
A940--A940	0119	0R42	C112	3000	0014	0DEC	0151	0CEB	4114	1R03	0905	0115	C10B	610A	0A01	6111
A950--A950	1R44	0901	0111	1Rf8	1RfC	A9B6	4806	E107	0DFE	03BD	E802	1CF9	0031	A925	C10A	910B
A960--A960	0131	1R2D	0A10	B109	6109	A027	E10A	E622	0105	0844	0FE8	A009	0822	1CFE	0814	D10A
A970--A970	1RfA	1RAs	1RAs	5R29	09CF	0121	1RAD	0111	1R06	09FE	0111	1R02	09FE	0112	0A02	1RfC
A980--A980	09F1	0113	6111	610F	1R13	0901	0131	1R9C	E112	0852	0D00	4114	094C	1Rc1	0A04	B109
A990--A990	6109	0A02	A109	0103	0A3A	E10F	0151	0A19	E107	03D7	5800	FEF1	A024	0103	0A1E	6104
A9A0--A9A0	14EA	E10F	0141	1RfA	1R00	FF1B	A92B	1R0D	C109	A024	0108	C112	9116	0115	C10A	910B
A9B0--A9B0	0131	1RDC	1R2E	1CF2	0822	589F	D112	09DF	0101	D10F	1R2D	3031	3233	3435	3637	425A
A9C0--A9C0	2C2F	3R39	4143	2847	4829	5249	464C	4D4E	4F50	5B25	225D	4455	5354	5657	5859	2B2D
A9D0--A9D0	2E45	4A4B	512A	3031	3233	3435	3637	2440	273D	3R39	4143	425A	2C2F	5249	464C	4D4E
A9E0--A9E0	4F50	2847	4829	4455	5354	235C	5E21	2B2D	2E45	5657	5859	3031	3233	3435	3637	4A4B
A9F0--A9F0	512A	3R39	4143	263F	3C3E	5249	464C	4D4E	4F50	425A	2C2F	4455	5354	5249	464C	4D4E
AA00--AA00	2E45	3A3B	5F3D	3031	3233	3435	3637	5657	5859	3R39	4143	4A4B	512A	5249	464C	4D4E
AA10--AA10	4F50	5B25	225D	4455	5354	425A	2C2F	2B2D	2E45	2847	4829	3031	3233	3435	3637	2440
AA20--AA20	273D	3R39	4143	5657	5859	5249	464C	4D4E	4F50	4A4B	512A	4455	5354	235C	5E21	2B2D
AA30--AA30	2E45	425A	2C2F	3031	3233	3435	3637	2847	4829	3R39	4143	263F	3C3E	5249	464C	4D4E
AA40--AA40	4F50	5657	5859	4455	5354	4A4B	512A	2R2D	2E45	3A3B	5F3D	40FF	E000	0010	0R32	4103
AA50--AA50	E000	00R7	0R32	4102	E000	0013	0R34	6101	1R07	1400	AD5D	40FF	0A00	1R73	40FF	54B5
AA60--AA60	1RfP	0A00	6117	6116	610F	611A	E106	C622	0F49	A007	09F1	011A	610A	610B	C204	0122
AA70--AA70	A000	7000	A016	6117	1R00	016R	1R00	0140	C031	B108	6108	C02B	611R	0FC3	610C	1R52
AA80--AA80	0112	0A20	1R4C	4113	0R22	0A00	0FA7	0161	0971	0FA1	0161	0962	0FA1	0161	0963	0FA1
AA90--AA90	0161	0964	0FA1	0161	0965	0FA1	0161	0966	0FA1	0161	0967	0FA1	0161	0918	0FA1	0161
AAA0--AAA0	0979	A000	FF8F	0FA5	0161	0970	0FA1	0161	0960	0FA1	0161	0950	A039	0C00	0FE9	0151
AAAB--AAAB	1R16	E112	C622	0FC8	09F9	0112	0A7D	1R15	09FB	0112	0A7B	1R11	E111	C110	A00E	B622
AAAC--AAAC	0111	1R86	0A01	611A	0A3F	1R07	0FE6	EA00	01C2	0111	0FE8	0FE8	A00A	E113	1A00	0197
AAAD--AAAD	1R1D	1R32	40FF	E107	0231	610C	0A02	032E	C104	0138	C105	0106	0AFE	6104	0A20	A10C
AAAE--AAAE	0102	1R0B	14EA	0A10	A10C	0101	1R21	0A08	A10C	0101	1R05	1R13	0A02	1R00	0149	0DFE
AAAF--AAAF	C109	0121	1R49	C112	9111	09AF	0132	0A22	1Rf4	020C	E112	6622	D112	E107	0A1C	0306
AB00--AB00	0A01	6104	14EA	1R00	011B	1R58	1R58	5400	922F	40FF	C109	0124	0844	683A	1R00	00BB
AB10--AB10	C112	9111	09AF	0102	0A23	1R07	E0FF	5R01	AB18	C8FE	0908	6803	54F4	520A	AB20	14EA
AB20--AB20	40FF	C111	6112	0A02	A109	0116	0A08	A109	0101	1R30	1R00	00CC	0C9F	1R61	0822	0A10
AB30--AB30	A109	0101	1R16	C110	0FC4	A016	0874	0112	1R00	FF3E	1R0E	0222	E80B	0158	D809	0R22
AB40--AB40	C110	A00E	0874	0112	6803	1Rf2	1R86	0000	0R14	A00A	A000	0050	09AF	0111	1R11	0A08
AB50--AB50	A109	0117	0A10	A109	0116	C109	A036	B026	6109	1R00	010R	0A0C	1R90	1R57	1R57	C109
AB60--AB60	A036	6109	0A20	0R84	0104	0AFB	A109	0904	6109	0R14	0F48	A00A	0104	6117	9114	0113
AB70--AB70	1R0R	6114	1R06	E117	4114	0A09	1R00	FF75	C114	0901	A00A	6114	0CEF	1R11	0R22	0A10
AB80--AB80	A109	0101	1R21	0A10	B109	6109	0175	C114	09FE	6114	0A0A	1R5A	4115	0C14	4113	E10F

X X #X X @ 2A
2E ' 4] ! B G
E A A NA ! PX
T@ T OXF + X
" I "
X B X X X 4
X X X X 4 1
2 X T T H

T T
2
X " Z
D X % 1 \$ #
4 ? :
X @ 9 5 B X E
B O Q A Z A
D H " 1 %
1 - " D "
X ! 1 R A L
: Q X \$
A + \$
1 "X 01234567BZ
./89AC(GH)RIFLMNOP[X"]DUSTVWXY+-
.EJKQ*01234567\$@'=89ACBZ,/RIFLMN
OP(GH)DUST# @!+-E.VWXY01234567JK
Q*89ACX?<>RIFLMNOPBZ,/DUST(GH)+-
.E:; =01234567VWXYR9ACJKQ*RIFLMN
OP[X"]DUSTBZ,/+-E(GH)01234567\$@'
'=89ACVWXYRIFLMNOPJKQ*DUST# @!+-
.EBZ,/01234567(GH)89ACX?<>RIFLMN
OPVWXYDUSTJKQ*+-E:; =@ 2A
2A 4] @ T
" I " R
e 1 +
LA " P 9 Q
" ?
2@ 1 . 8 I
! I 2 " " I
X XT /e \$ D :
X T R
e 0 " X "
> " P
6 X W W
6 H
! A " A A


```

1      00 11 22 33 44 55 66 77 88 99 AA BB CC DD EE FF
AF10--AF10 0B00 A027 0101 1CF5 0807 C806 0121 18F6 583F C10A 1CEE 0000 AC74 E107 F03F 0A00
AF20--AF20 0201 0B00 E10F 620D A20A E202 0102 0176 1CF3 0173 582D 800C 0822 1CEE E10F C214
AF30--AF30 6826 6112 C20E 09FE E215 4111 58BD FFFD 580D CC1D 0916 0C00 4C1A E111 58B5 FFFD
AF40--AF40 58C8 013B CC14 0900 0108 0A00 E111 0D01 0DFD 0172 8E0C 18FC 0103 580A 800E 1805
AF50--AF50 E10F C202 A011 6202 0822 1CC6 0000 AE9E 5C8C 4830 5891 0F2D 482C C102 A031 B032
AF60--AF60 0822 0A3F ACF4 0874 6102 C833 0112 E821 5822 E107 CCEC A02B 0102 0201 0B00 CCE7
AF70--AF70 A02C 0104 C000 CFFE 0301 0B00 C813 60FF E105 0178 014A 0852 F000 0035 0176 ECD7
AF80--AF80 0F66 E105 0FE6 5400 924A CCD1 E8D0 1201 FFFF 067E AFA0 F000 2D30 4816 CCC8 A008
AF90--AF90 5400 8DA8 6P16 0AFF 68F3 54F4 4CAA AF9D 0000 18FC 0008 AFA1 1CED EREA 0171 58EA
AFA0--AFA0 14EA 204D 4343 2D31 2020 4552 524F 5220 3035 1806 0280 0780 0000 0000 0000 E8FD
AFB0--AFB0 CAF9 68FC 0114 54F4 1901 FFF4 14EA CAF1 88F5 A000 0780 0111 181D EAEC 0FE9 A000
AFC0--AFC0 000F 09F5 0132 0941 1802 093A 8000 2000 6800 0090 C000 2020 6800 008F 0C01 0A01
AFD0--AFD0 5857 0C01 5862 A000 FF7F 0103 0C0E 586B 000F C8D4 0F44 A000 0007 8000 2030 6800
AFE0--AFE0 007C 0C12 5852 0A03 0C12 5842 0C12 584D 0FC4 0135 683C 0C08 5856 001D C838 0FC1
AFF0--AFF0 0135 6835 0C0D 584F 0025 C831 0FC4 0135 682E 0C09 5848 0032 C82A 0FC3 0135 0000

```

```

      H . ?
      ! X?
      X- " ?
%      A X X      L X
X ;      "      X
      " ?      3 !X"      +
      ,      T J      J R 5
      T J      -OH
      T      T L      X
      MCC-1 ERROR 05
      T
      2 A :
XW X      X      D      0
      XR      XB XM 5 < XV 8
      5 5 XO % 1 5 . XH 2 * 5

```

1***POSSIBLE LEVEL HANGUP

```

J A 0 I REGISTER 1806 0317 020A
MAX CORE WAS AFFF WITH 1CB6 TO 7FFE UNPROT
MAXSEC WAS 00005BEA
MAX CORE WAS AFFF WITH 1CB6 TO 7FFE UNPROT
MAXSEC WAS 00005BEA

```

***POSSIBLE LEVEL HANGUP

→ PRI LVL WAS 0005 *location \$EF*

```

LINE 00 LAST INTERRUPTED 165A
LINE 01 LAST INTERRUPTED 1339
LINE 03 LAST INTERRUPTED 82DD
LINE 04 LAST INTERRUPTED 870B
LINE 0B LAST INTERRUPTED 1F68
LINE 0 1 2 3 4 5 6 7 8 9 A B C D E F LEVEL F D 0 9 A 0 0 A 0 0 0 E 0 0 E 0

```

→ INTRPT STACK LEVEL -1 0 2 3 4

```

LU 06 CURRENT PARA LIST AT 135B
RC 0936 C 7FE5 TH FFFF LU 0006 N 0060 S 0097
LU 08 CURRENT PARA LIST AT 1350
RC 0936 C 7FEE TH FFFF LU 0008 N 0060 S 0037
I/O IN PROGRESS
LU 01 THREAD
86F9 FFFF
LU 08 THREAD
1345 FFFF
RETURN FOR FNR WAS 9421
RETURN FOR CMR WAS 9462 $ 25
NUM OF SCHEDL STACK ENTRIES WAS 19 NUM OF SCHEDL CALLS STACKED WAS 04
SCHEDL STACK ENTRIES
0317/ 5244 8B0F 1010 0006
1010/ 0044 10AA 8088 9136
8088/ 4C03 80P5 030B 0008
030B/ 1201 132B FFFF 00F7
LAST ENTRY TO BE SCHEDULED 031B/ 52F8 AD63 031F 06E3

```

THERE WERE 0032 OF THE 0121 VOLATILE WORDS ASSIGNED
ALLOCATABLE CORE MAP INDEX START LENGTH THIRD DUMP
0017 10A8 01B2 10AA C8FE 6800 00E1 CC72 0101
EMPY 125A 009A 1422 4A45 4354 2020 5441 5045
001E 12F4 0035 12F6 C400 0F63 5400 8884 682A
001F 1329 00F9 132B 54F4 1304 0003 14EA 54F4
EMPY 1422 6B88 7FFC 0500 6C09 0808 C8D3 1C06
0028 7FFA 0002 7FFC 0003 FFFF 0660 0000 09E5
EMPY 7FFC 0003 FFFF 0660 0000 09E5 0500 54BB

SYSTEM WAS SWAPPED

JP NOT IN CORE

PARTITION CORE ADDRESSES

PARTITION 0000 8000

PARTITION 0001 8080

PARTITION 0002 8100

PARTITION 0003 8180

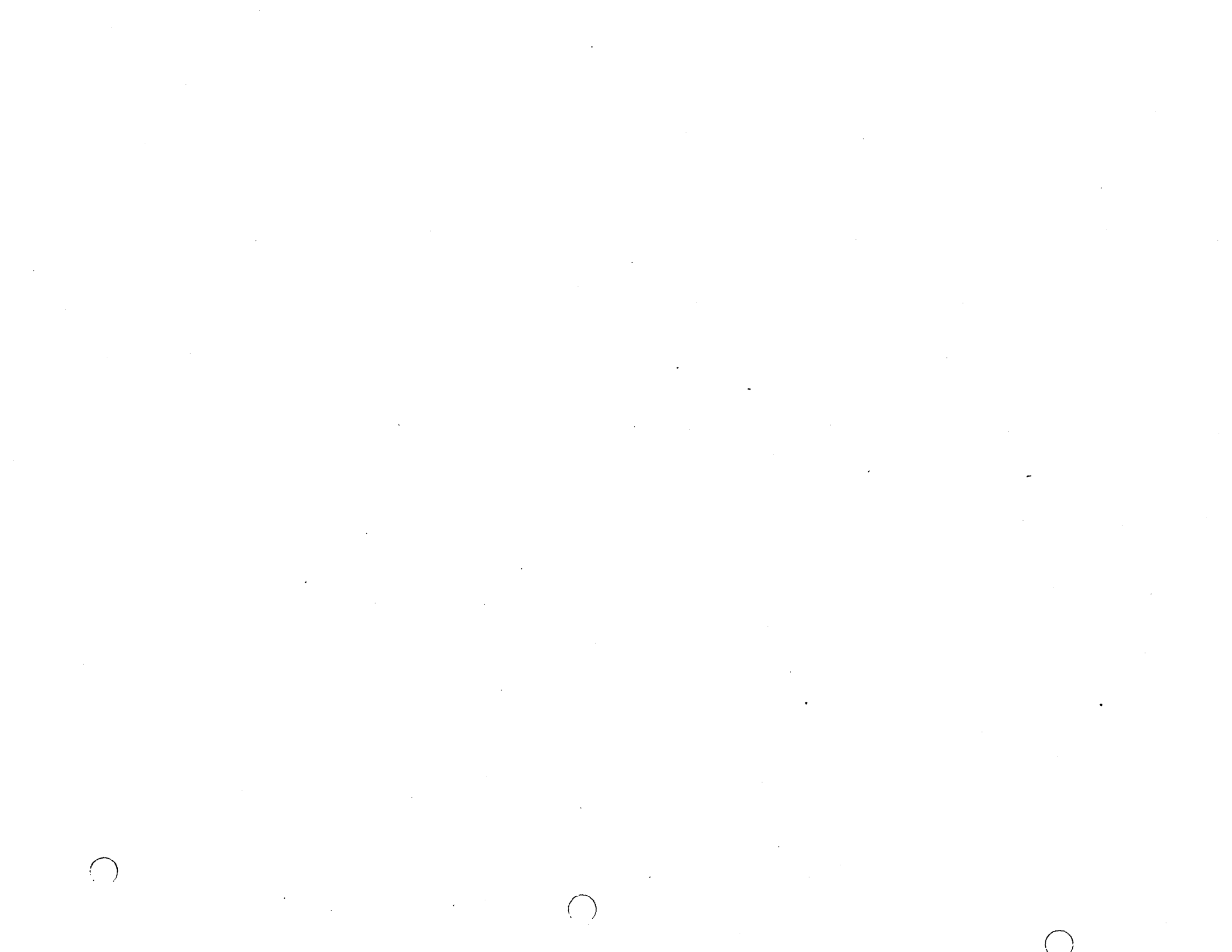
PARTITION THREADS

PARTITION 0001 1072

PARTITIONS IN USE

PARTITION 0001 0002

FINISH SYSCOP



0001		NAM	TIME	PRINT TIME EVERY 2 SECONDS
0002		EXT	HORTO	HOUR VALUE AS AN INTEGER
0003		EXT	MINTO	MINUTE VALUE AS AN INTEGER
0004		EXT	SECON	SECOND VALUE AS AN INTEGER
0005		EXT	CONVER	HEX TO DECIMAL CONVERSION ROUTINE IN ADEV
0006	00EA	EQU	ADISP(\$EA)	ADDRESS OF DISPATCHER
0007	00FB	EQU	LIST(\$FB)	SYSTEM STANDARD LIST DEVICE
0008	0005	EQU	PRI(5)	PRIORITY OF PROGRAM
0009	0000 P GO	EQU	GO(*)	
0010	P0000 C400 X LOOP1	LDA	HORTO	PICK UP PRESENT HOUR
	P0001 7FFF X			
0011	P0002 5400 X	RTJ	CONVER	CONVERT HOUR VALUE IN A TO ASCII
	P0003 7FFF X			
0012	P0004 682A	STA*	HRMSG	STORE IN OUTPUT MESSAGE
0013	P0005 C400 X	LDA	MINTO	PICK UP THE PRESENT MINUTE
	P0006 7FFF X			
0014	P0007 5400 X	RTJ	CONVER	CONVERT MINUTE VALUE IN A TO ASCII
	P0008 0003 X			
0015	P0009 E000	LDO	=A::	ADD PUNCTUATION
	P000A 3A3A			
0016	P000B 0FEB	LLS	8	
0017	P000C 4823	STQ*	HRMSG+1	STORE IN OUTPUT MESSAGE
0018	P000D 6823	STA*	HRMSG+2	
0019	P000E C400 X	LDA	SECON	PICK UP THE PRESENT SECOND
	P000F 7FFF X			
0020	P0010 5400 X	RTJ	CONVER	CONVERT MINUTE VALUE IN A TO ASCII
	P0011 0008 X			
0021	P0012 681F	STA*	HRMSG+3	STORE IN OUTPUT MESSAGE
0022		FWRITE	LIST,ENWRT-#+1,MSG-#+5,MSGL,A,PRI,PRI,I,X,0	
0022	P0013 54F4			
0022	P0014 0D55			
0022	P0015 0007			
	P0016 0000			
0022	P0017 18FB			
0022	P0018 000B			
	P0019 0013			
0023	P001A 14EA	JMP-	(ADISP)	
0024	P001B 0817	ENWRT	RAO* INC	CHECK FOR END OF ROUTINE
0025	P001C E816		LDO* INC	
0026	P001D 0D9B		INO -100	
0027	P001E 0165		SQP ENDPRG	
0028			TIMER LOOP1-#+1,PRI,X,2,2,0	
0028	P001F 54F4			
0028	P0020 1125			
0028	P0021 7FDF			
	P0022 0002			
0029	P0023 14EA	JMP-	(ADISP)	
0030		ENDPRG	RELEAS (GO-ENDPRG-1),DISP,X,0	
0030	P0024 54F4			
0030	P0025 1901			
0030	P0026 FFDA			

EVALUATION FORM

Course/Seminar Name _____ Date of Attendance From _____ To _____

Instructor _____ Location _____

Please place a rating in the box for each area and then add comments explaining your rating.

Rating Key

<i>Excellent</i>	5
<i>Very Good</i>	4
<i>Good</i>	3
<i>Fair</i>	2
<i>Poor</i>	1

The Course/Seminar

- * How well did the course/seminar cover the stated objectives?
- * To what degree will the course/seminar be helpful in improving on-the-job performance?
- * To what extent were the handout materials and visuals helpful in aiding your understanding of the topic?
- * What is your overall rating of the organization and content of the course/seminar?

The Instructor

- * How do you rate the instructor's knowledge of the material and ability to answer questions?
- * How effective was the instructor in presenting the material in an understandable manner?
- * How effective was the instructor in generating and sustaining interest in the course/seminar?
- * How do you rate the instructor's responsiveness to the needs of participants?
- * What is your overall rating of the instructor?

The Facilities

- * How do you rate the appropriateness of the facilities to the topic and means of presentation?
- * To what extent were the facilities comfortable, well-lighted and heated or cooled?
- * How convenient was the location of the facility?

EVALUATION FORM

Page 2

General Comments

* What changes in the course/seminar would you make if you were the instructor?

* Would you recommend this course/seminar to others in your company or department? Why?

* Please list colleagues or associates who should receive advance notices of similar courses/seminars.

1) Name _____

Organization _____

Address _____

Bus. Tel. No. _____

2) Name _____

Organization _____

Address _____

Bus. Tel. No. _____

3) Name _____

Organization _____

Address _____

Bus. Tel. No. _____

4) Name _____

Organization _____

Address _____

Bus. Tel. No. _____

* Should this course be offered at your company site? If so, who should be contacted to manage it?

* If we may use your comments in future descriptions of the course/seminar, please sign below.

Signature _____

(Optional)

PARTICIPANT INFORMATION FORM

In order for our seminars/courses to be most effective, they need to take into account the characteristics, needs and objectives of the people who attend them. The information asked for below will assist us in keeping our presentations relevant to the participants and in developing and scheduling new presentations that will meet participant needs. Please complete this form and leave it with the presenter at the next break.

Seminar/Course Title _____ Date of Presentation _____
Name _____ Field or Type of Business _____
Title _____ Years of Experience _____
Business Address _____ Supervisor's Title _____
_____ Last professional degree _____

List your three primary objectives in attending this seminar.

1. _____
2. _____
3. _____

Will this course/seminar be credited toward certification/training requirements? _____

Rank in order of importance in your choice of this seminar session.

Instructor _____ Date _____ Location _____ Employer's Preference _____

Previous courses/seminars attended relating to this topic.

1. _____
2. _____
3. _____

Topics for additional courses/seminars in which you would be interested.

1. _____
2. _____
3. _____

PARTICIPANT INFORMATION FORM

Page 2

What trade journals/magazines do you regularly read or subscribe to in order to keep abreast in your profession?

1. _____
2. _____
3. _____

How did you become aware of this course/seminar?

Schedule/Catalogue _____,

Direct Mail Brochure _____,

Recommendations of Supervisor _____,

Recommendation of Colleague _____,

Corporate Training Department _____,

Other _____.

COMMENT SHEET

MANUAL TITLE: CYBER 18/1700 MSOS ANALYSIS

PUBLICATION NO.: QA4020-3

REVISION: C

NAME: _____

COMPANY: _____

STREET ADDRESS: _____

CITY: _____ STATE: _____ ZIP CODE: _____

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