

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
0014F0 3 C3801 START 5360
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*** PREREQUISITES ***
TTY ATTACHED
LEVEL 4 PROCESSOR
*** MODIFICATIONS ***
1. REARRANGE OVERLAY FOR FUTURE EXPANSION.
2. MODIFY CODE TO HANDLE TTY BUSY.
*** REA'S INCORPORATED ***
NONE
*** SPECIAL INSTRUCTIONS ***
NONE
*** E. C. HISTORY ***
DATE 01JUL76 DATE 01OCT76 DATE 22APR77 DATE 08AUG78
E.C. 578446 E.C. 578468 E.C. 578751 E.C. 755404
SYSTEM EQUATES
SM EQU 1 SUMMARY MASK DISABLE OR
ENABLE CODE
EQUATED NAMES FOR SUPPORTED SVC'S
OUT EQU 0 OUT SVC
HTOE EQU 26 HEX TO EBCDIC SVC (STRING)
ETOA EQU 29 EBCDIC TO ASCII SVC (STRING)
ATOE EQU 30 ASCII TO EBCDIC SVC (STRING)
EQUATES USED BY DCP
STOP EQU 6 STOP AFTER MSG OUT
ALTDV EQU 7 ALTERNATE OUTPUT DEV ASSIGNED
RTHDI EQU 11 RDI RETURN REQUESTED
EOT EQU X'0D' END OF MESSAGE CHAR (RETURN)
TTBEL EQU X'11' ATTN CHAR (X-ON)
DELETE EQU X'7F' DELETE CHAR (RUBOUT)
VALUE OF 0
ONE 1
THREE 3
FOUR 4
SEVEN 7
NINE 9
TWENTY 20
TWENTY 20
SIXTY 60
SIXTY 60
ONE92 192
M30 EQU -30
EQUATES FOR CODED STOPS USED BY DCP
(NORMAL AND ERROR)
ACNG EQU X'3801' ALTERNATE CONSOLE ERROR
THE FOLLOWING EQUATES ARE THE DISPLACEMENTS FROM THE
START OF A QUE BLOCK OF THE VARIOUS INFORMATION.
QR7 EQU 20 XR7 OF CALLING PROGRAM
QSVC EQU 22 SVC NUMBER OF CALLING PROGRAM
THE FOLLOWING AREA CONTAINS THOSE CONSTANTS AND CODE
REQUIRED BY THE ALTERNATE CONSOLE ROUTINE WHICH WILL
BE READ INTO STORAGE AS OVERLAYS.
NAME TTY
PURPOSE THIS ROUTINE STARTS PRINTING ON THE TTY
WHAT IS PASSED
THE BYTE IMMEDIATELY PRECEDING THE LABEL PASSED BY THE
SVC IS CHECKED. IF IT IS NEGATIVE A HEADING WILL BE
PRINTED PRIOR TO PRINTING THE REQUESTED MESSAGE.
ALIGN WORD
TTY EQU *
MVB R1,PRTSW SET PRINT BUSY
MVB HEX01,NLSW T/ON NEW LINE SWITCH
MVI ONE,ACWCT RESET COUNTER TO ONE
MVBZ ACMS,RO RESET KEYING IN MODE SW

0014F0 690D 179C
0014F0 8028 1710 1792
0014F4 4020 17A0 0001
001500 C025 1795

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001504 4624 1770 MVA CIDCB,R6 ADDR CARRIAGE RET IDCB
001508 6F03 16B8 TTYIO,R7 GO ISSUE I/O AND CHECK COND CD
00150C 6802 1628 B TT60 GO TO SCHEDULER-WAIT FOR INTRPT

THE FOLLOWING ROUTINE HANDLES INTERRUPTS FROM THE TTY

TT00 EQU *
DIS SM DISABLE INTERRUPTS
BNCC THREE,TT70 BR/IF NOT DEV END INT
MVB ONE,R5 SET XR5 TO A CONSTANT OF 1
MVB ACMS,R0 IN KEYING IN MODE
BNZ TT60 BR/YES
TT01 EQU *
MVB PRTSW,R1 GET ADDR QUE BLOCK
MVB RPSV,R3 GET DIAGNOSTIC PROGRAM DATA ADDR
SW R5,ACWCT SEE IF PRINT BUFFER EMPTY
JP TT22 BR/IF NOT
JN TT30 BR/IF END
*
MVB ZERO,R0 INITIALLY ZERO BUFFER
MVB SIXT6,R7 LENGTH OF BUFFER
MVB TTBL,R4 ADDR PRINT BUFFER
MVB R4,R2 PRINT BUFFER ADDR - FOR LATER
MVB RO,(R4) ZERO OUT BUFFER
MVA CRPRT,PRBA ADDR OF C/R LINE FEED
MVBZ NLSW,RO NEW LINE SW ON-IF SO TURN OFF
JZ TT20 BR/IF NOT
MVB GRPT1,RO = TO PP
JN TT20 BR/YES-DON'T PRINT HEADER
MVA HLTCV,R7 ADDR OF CONTROL BLOCK
SVC HTOE GO CONVERT
MVA HALCV,R7 ADDR OF CONTROL BLOCK
SVC HTOE GO CONVERT
MVB ACPRG*,(R2)+ MOVE IDENTIFIER
MVB FOUR,R7 BYTES TO MOVE
MVA PID,R6 ADDR OF I.D.
MVFN (R6),(R2) MOVE THE PROG NAME
MVB TWENTY,R7 LENGTH OF RTN AND CK PT MSG
MVA MSG8,R6 ADDR MESSAGE
MVB (R6),(R2) MOVE MESSAGE INTO PRINT BUFFER
MVB CRPRT,(R2)+ PUT IN CARRIAGE RETURN
MVBZ (R2),RO END OF MESSAGE CHARACTER
MVB TWENTY,RO ADD LENGTH OF MESSAGE
MVB INVT1,RO NUM OF BYTES TO CONVERT
MVA INVT1,R7 CONTROL BLOCK ADDR
SVC STOA GO CONVERT
MVB RO,ACWCT SET LENGTH OF LINE TO PRINT
J TT22 GO DO LINE FEED
TT20 EQU *
MVB SIXT4,R7 SET TO MOVE 64 BYTES
MVI ONE92,ACWCT BYTE COUNT
MVB R7,R6 SAVE MAX NUMBER BYTES TO MOVE
MVB ZERO,RO END OF MESSAGE CHAR
MVB SPEN,RO,(R3) COMPUTE LENGTH OF MESSAGE
JNE TT21 BR/IF EOM CHARACTER NOT FOUND
R5,R3 POINT TO EOM CHARACTER
TT21 EQU *
R7,R6 GET LENGTH OF MESSAGE
JZ TT22 BR/IF DONE
MVB R6,R3 GET ADDR OF MESSAGE AGAIN
MVB R6,R7 BYTES TO MOVE INTO BUFFER
MVB R6,INVT1 COUNT FOR CONVERT
MVA PRTBUR2 GET ADDR TTY BUFFER
MVFN (R3),(R2) MOVE DATA INTO PRINT BUFFER
MVA INVT1,R7 CONTROL BLOCK ADDR
SVC ETOA GO CONVERT
MVB CRPRT,(R2)+ PUT IN CARRIAGE RETURN
MVBZ (R2),RO END OF MESSAGE CHARACTER
TT22 EQU *
MVB PRBA*,R7 MOVE CHAR TO PRINT INTO R7
JZ TT30 BR/IF EOM CHARACTER
MVB F7,WIDC3 MOVE CHARACTER INTO PRINT IDCB
AW R5,PRBA UPDATE BUFFER ADDR
TT23 EQU *
MVA WIDCB,R6 PRINT IDCB ADDR
BAL TTYIO,R7 GO ISSUE I/O AND CHECK COND
J TT60 RETURN TO SCHEDULER
TT30 EQU *
CW ENTSW,ACSV* SEE IF TO KEY IN DATA NEXT
JE TT51 BR/IF YES
CB (R1,QSVC),OUT1 SEE IF OUTIN SVC
JE TT50 BR/YES-CONTINUE
MVBZ C825,179C RESET PRINT BUSY SWITCH
MVA ACIND*,R7 ADDR OF DCP IND
TBT (R7,STOP) IS STOP AFTER ERR MSG ON
JOFF TT40 BR/NO
MVA GRPT,R7 ADDR FROM MSG INDICATORS
TBT (R7,NINE) IS THIS AN ERR MSG
JON TT60 BR/YES-WAIT FOR OPERATOR
TT40 EQU *
B ACSVR* RETURN
TT50 EQU *
MVBZ NLSW,R3 RESET NEW LINE SW
MVBZ ACMS,RO RESET KEYING IN MODE SWITCH
MVB ACSVP*,ENTSW SET SWITCH WITH QUE BLOCK ADDR
TO SHOW TO KEY IN DATA AFTER
THIS MESSAGE HAS BEEN PRINTED
ADDR ENTER MSG PARA
GO PRINT MSG
MVA ENTER,PRBA
J TT22
TT51 EQU *
MVBZ ENTSW,RO RESET ENTER SWITCH
MVB R5,ACFCS SET 1ST CHAR SW
MVB R5,ACMS SET KEY IN MODE SW
CB (R1,QSVC),OUT1 OUT/IN SVC
JZ TT60 BR/NO
MVA ACIND*,R7 ADDR OF DCP INDICATORS
TBT (R7,RTADI) RDI IMMEDIATE RETURN
JNZ TT40 BR/YES
TT60 EQU *
B ACSCH* RETURN TO SCHEDULER
TT70 EQU *

001604 4020 1790 1706
00160A 50D5
00160C
00160C C825 179E
001610 C528 1794
001614 C528 1795
001618 812B 0016 1793
001618 1804
001620 4734 1782
001624 4FB8
001626 18E5
001628 6812 1780
00162C

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00162C 6C04 1638 240 BCC FOUR,TT80 BR/ATTENTION INTERRUPT
001630 6F05 16D6 241 BNCC SEVEN,TTYNG BR/INTRPT COND CODE BAD
001634 6E0D 17A2 242 TT71 EQU * READ IDCB
001638 4624 1778 243 MVW R6,DEAT SET ATTN AND DEV END INT SW
00163C 0D01 1778 244 TT80 EQU * READ IDCB
00163E 9F3C 1778 245 MVI ONE,R5 SET CONSTANT OF 1
001640 4E98 1778 246 JAL TTYIO,R7 GOT ISSU I/O AND CHECK COND CD
001642 C020 177B 247 TBTR (R6,24) RESET PARITY BIT
001644 F011 177B 248 MVB RIDC3,R0 GET CHAR KEYED IN
001646 1807 179C 249 CBI TTBEL,R0 BELL OR ATTN CHAR
001648 6808 179C 250 JNE TT90 BR/NO
00164E 10D3 17A2 251 MVW PRTSW,R0 TTY BUSY
001650 CE25 17A2 252 JZ TT50 BR/NO-GO SET UP ENTER MSG
001654 10E9 17A2 253 MVWZ DEAT,R6 ATTN AND DEV END INT SW ON
001656 50DA 179C 254 JZ TT60 BR/NO-GO TO SCHEDULER
001658 C020 1795 255 J TT90 EQU * GO HANDLE DEV END PORTION
00165C 10CC 179C 256 MVB ACIMS,R0 IN KEYING IN MODE
00165E C025 1794 257 JZ TT50 BR/NO
001662 1006 1790 258 MVBZ ACPCS,R0 FIRST CHAR SW ON
001664 4020 1790 1724 259 MVA PRTBUR,PRBA SET BUFFER ADDR
001666 4020 17A0 0040 260 MVWI SIXT4,ACWCT SET LENGTH OF BUFFER
001670 C020 177B 261 EQU *
001674 F00D 1790 262 MVB RIDC3,R0 GET CHAR KEYED IN
001676 100E 1790 263 CBI EOT,R0 SEE IF END OF MESSAGE CODE
001678 CD3E 1790 264 JE TT99 BR/YES
00167C 0D2E 1790 265 MVB R0,PRBA* MOVE CHAR KEYED INTO BUFFER
001680 F07F 1790 266 AN R5,PRBA UPDATE BUFFER ADDRESS
001682 6800 15F6 267 CBI DLTR,RO DELETE KEY
001684 CD2F 17A0 268 SW TT50 BR/YES
001686 6800 15F6 269 BZ R5,ACWCT DECREMENT BUFFER LENGTH AVAIL
001688 C028 176F 270 MVB R0,WIDC3 BR/IF BUFFER FULL
001692 5098 179C 271 J TT23 MOVE CHAR KEYED TO PRINT IDCB
001694 C035 1790 272 EQU * GO PRINT
001696 C025 1795 273 MVBZ PRBA*,R0 SET END OF MESSAGE CODE
001698 4224 1724 274 MVBZ ACIMS,R0 RESET KEYING IN MODE
0016A0 CA2F 1790 275 MVA PRTBUR,R2 PASS ADDR PRINT BUFFER
0016A4 4924 17A6 276 SW R2,PRBA* NUMBER OF BYTES
0016A6 601E 179C 277 MVA PRBA,INVT1 COUNT OF CONTROL BLOCK
0016B0 8225 179C 278 MVI INVT1,R7 START OF CONTROL BLOCK
0016B4 6812 1788 279 SVC ATOR CONVERT ASCII TO EBCDIC
0016B8 8225 179C 280 MVWZ PRTSW,R0 ZERO THE PRINT SWITCH
0016C0 6812 1788 281 B ACOPC* GO TO COMMAND PROCESSING
282 *****
283 * THE FOLLOWING ROUTINE ISSUES I/O FOR THE TTY. THE CALLING
284 * ROUTINE PASSES THE ADDRESS OF THE IDCB TO IT IN XR6.
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00176C 5000 *****
00176E 0000 *****
001770 5000 *****
001772 0000 *****
001774 6F00 *****
001776 0000 *****
001778 1000 *****
00177A 0000 *****
00177C 6000 *****
00177E 0005 *****
00177F *****
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0017E6 *****
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0017EC *****
0017F8 *****
0017FC *****
0017FE *****
001800 *****
00180A *****
00180C *****
000000 *****
001706 0D0A *****
001708 454E *****
00170D 0D0A *****
00170F 00 *****
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001768 *****
00176A *****

CROSS-REFERENCE LISTING

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
396	ACCON	ADDRESS. HEX LOCATION(0000178A) IN CSECT(C3801) LENGTH(1)
336	ACEND	ADDRESS. HEX LOCATION(00001712) IN CSECT(C3801) LENGTH(1)
404	ACFCS	ADDRESS. HEX LOCATION(00001794) IN CSECT(C3801) LENGTH(1)
405	ACIMS	ADDRESS. HEX LOCATION(00001795) IN CSECT(C3801) LENGTH(1)
392	ACIND	ADDRESS. HEX LOCATION(00001782) IN CSECT(C3801) LENGTH(1)
457	ACNGM	ADDRESS. HEX LOCATION(000017FE) IN CSECT(C3801) LENGTH(1)
395	ACOPC	ADDRESS. HEX LOCATION(00001788) IN CSECT(C3801) LENGTH(1)
376	ACPRE	ADDRESS. HEX LOCATION(0000177C) IN CSECT(C3801) LENGTH(2)
449	ACPRG	ADDRESS. HEX LOCATION(000017EA) IN CSECT(C3801) LENGTH(1)
380	ACPR3	ADDRESS. HEX LOCATION(0000177F) IN CSECT(C3801) LENGTH(1)
372	ACRES	ADDRESS. HEX LOCATION(00001774) IN CSECT(C3801) LENGTH(2)
337	ACS	ADDRESS. HEX LOCATION(00001722) IN CSECT(C3801) LENGTH(1)
391	ACSCH	ADDRESS. HEX LOCATION(00001780) IN CSECT(C3801) LENGTH(1)
397	ACSTR	ADDRESS. HEX LOCATION(0000178C) IN CSECT(C3801) LENGTH(1)
393	ACSVF	ADDRESS. HEX LOCATION(00001784) IN CSECT(C3801) LENGTH(1)
394	ACSVR	ADDRESS. HEX LOCATION(00001786) IN CSECT(C3801) LENGTH(1)
398	ACVTR	ADDRESS. HEX LOCATION(0000178E) IN CSECT(C3801) LENGTH(1)
414	ACWCT	ADDRESS. HEX LOCATION(000017A0) IN CSECT(C3801) LENGTH(1)
62	ALTDV	ABSOLUTE. HEX VALUE(00000007)
54	ATOE	ABSOLUTE. HEX VALUE(0000001E)
370	CIDCB	ADDRESS. HEX LOCATION(00001770) IN CSECT(C3801) LENGTH(2)
349	CRPRT	ADDRESS. HEX LOCATION(00001722) IN CSECT(C3801) LENGTH(2)
3	C3801	CSECT. START(000014F0) LENGTH(784) ESDID(1)
417	DEAT	ADDRESS. HEX LOCATION(000017A2) IN CSECT(C3801) LENGTH(1)
67	DLETE	ABSOLUTE. HEX VALUE(0000007F)
327	ENTER	ADDRESS. HEX LOCATION(00001706) IN CSECT(C3801) LENGTH(2)
413	ENTSW	ADDRESS. HEX LOCATION(0000179E) IN CSECT(C3801) LENGTH(1)
65	EOT	ABSOLUTE. HEX VALUE(0000000D)
53	ETOA	ABSOLUTE. HEX VALUE(0000001D)
72	FOUR	ABSOLUTE. HEX VALUE(00000004)
410	GRPT	ADDRESS. HEX LOCATION(0000179A) IN CSECT(C3801) LENGTH(1)
411	GRPT1	ADDRESS. HEX LOCATION(0000179B) IN CSECT(C3801) LENGTH(1)
428	HALCV	ADDRESS. HEX LOCATION(000017F2) IN CSECT(C3801) LENGTH(1)
332	HEX01	ADDRESS. HEX LOCATION(00001710) IN CSECT(C3801) LENGTH(1)
424	HLTCV	ADDRESS. HEX LOCATION(000017AC) IN CSECT(C3801) LENGTH(1)
52	HTOE	ABSOLUTE. HEX VALUE(0000001A)
436	IDCB	ADDRESS. HEX LOCATION(000017BE) IN CSECT(C3801) LENGTH(1)
420	INVT1	ADDRESS. HEX LOCATION(000017A6) IN CSECT(C3801) LENGTH(1)
441	MSG8	ADDRESS. HEX LOCATION(000017D0) IN CSECT(C3801) LENGTH(1)
81	M30	ABSOLUTE. HEX VALUE(FFFFFFE2)
74	NINE	ABSOLUTE. HEX VALUE(00000009)
401	NLSW	ADDRESS. HEX LOCATION(00001792) IN CSECT(C3801) LENGTH(1)
70	ONE	ABSOLUTE. HEX VALUE(00000001)
79	ONE92	ABSOLUTE. HEX VALUE(000000C0)
51	OUT	ABSOLUTE. HEX VALUE(00000000)
402	OUT1	ADDRESS. HEX LOCATION(00001793) IN CSECT(C3801) LENGTH(1)
460	PID	ADDRESS. HEX LOCATION(00001800) IN CSECT(C3801) LENGTH(1)
400	PRBA	ADDRESS. HEX LOCATION(00001790) IN CSECT(C3801) LENGTH(1)
350	PRTBU	ADDRESS. HEX LOCATION(00001724) IN CSECT(C3801) LENGTH(1)
412	PRTSW	ADDRESS. HEX LOCATION(0000179C) IN CSECT(C3801) LENGTH(1)
97	QR7	ABSOLUTE. HEX VALUE(00000014)
98	QSVC	ABSOLUTE. HEX VALUE(00000016)
374	RIDCB	ADDRESS. HEX LOCATION(00001778) IN CSECT(C3801) LENGTH(2)

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379	RIDC3	ADDRESS. HEX LOCATION(0000177B) IN CSECT(C3801) LENGTH(1)
434	RPSV	ADDRESS. HEX LOCATION(000017BC) IN CSECT(C3801) LENGTH(1)
63	RTMDI	ABSOLUTE. HEX VALUE(0000000B)
0	R0	REGISTER. HEX VALUE(00000000)
0	R1	REGISTER. HEX VALUE(00000001)
0	R2	REGISTER. HEX VALUE(00000002)
0	R3	REGISTER. HEX VALUE(00000003)
0	R4	REGISTER. HEX VALUE(00000004)
0	R5	REGISTER. HEX VALUE(00000005)
0	R6	REGISTER. HEX VALUE(00000006)
0	R7	REGISTER. HEX VALUE(00000007)
73	SEVEN	ABSOLUTE. HEX VALUE(00000007)
77	SIXT4	ABSOLUTE. HEX VALUE(00000004)
78	SIXT6	ABSOLUTE. HEX VALUE(00000004)
44	SH	ABSOLUTE. HEX VALUE(00000001)
61	STOP	ABSOLUTE. HEX VALUE(00000006)
71	THREE	ABSOLUTE. HEX VALUE(00000003)
66	TBEL	ABSOLUTE. HEX VALUE(00000011)
313	TTNG1	ADDRESS. HEX LOCATION(000016EE) IN CSECT(C3801) LENGTH(1)
120	TTY	ADDRESS. HEX LOCATION(000014F0) IN CSECT(C3801) LENGTH(1)
293	TTYIO	ADDRESS. HEX LOCATION(000016B8) IN CSECT(C3801) LENGTH(1)
304	TTYNG	ADDRESS. HEX LOCATION(000016D6) IN CSECT(C3801) LENGTH(1)
134	TT00	ADDRESS. HEX LOCATION(00001510) IN CSECT(C3801) LENGTH(1)
176	TT20	ADDRESS. HEX LOCATION(00001586) IN CSECT(C3801) LENGTH(1)
184	TT21	ADDRESS. HEX LOCATION(00001598) IN CSECT(C3801) LENGTH(1)
196	TT22	ADDRESS. HEX LOCATION(000015B6) IN CSECT(C3801) LENGTH(1)
201	TT23	ADDRESS. HEX LOCATION(000015C4) IN CSECT(C3801) LENGTH(1)
205	TT30	ADDRESS. HEX LOCATION(000015CE) IN CSECT(C3801) LENGTH(1)
217	TT40	ADDRESS. HEX LOCATION(000015F2) IN CSECT(C3801) LENGTH(1)
219	TT50	ADDRESS. HEX LOCATION(000015F6) IN CSECT(C3801) LENGTH(1)
227	TT51	ADDRESS. HEX LOCATION(0000160C) IN CSECT(C3801) LENGTH(1)
236	TT60	ADDRESS. HEX LOCATION(00001628) IN CSECT(C3801) LENGTH(1)
239	TT70	ADDRESS. HEX LOCATION(0000162C) IN CSECT(C3801) LENGTH(1)
244	TT80	ADDRESS. HEX LOCATION(00001638) IN CSECT(C3801) LENGTH(1)
257	TT90	ADDRESS. HEX LOCATION(00001658) IN CSECT(C3801) LENGTH(1)
264	TT91	ADDRESS. HEX LOCATION(00001670) IN CSECT(C3801) LENGTH(1)
276	TT99	ADDRESS. HEX LOCATION(00001694) IN CSECT(C3801) LENGTH(1)
75	TWENY	ABSOLUTE. HEX VALUE(00000014)
76	TWEN6	ABSOLUTE. HEX VALUE(0000001A)
368	WIDCB	ADDRESS. HEX LOCATION(0000176C) IN CSECT(C3801) LENGTH(2)
378	WIDC3	ADDRESS. HEX LOCATION(0000176F) IN CSECT(C3801) LENGTH(1)
69	ZERO	ABSOLUTE. HEX VALUE(00000000)