

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
311 *****
312 *****
313 **
314 ** STEP AND RULE ADDRESS TABLE
315 **
316 *****
317 *****
318 DC AL2(N00001)
319 DC XL2'0001'

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
425 EQN00036 EQU 0036
426 DC AL2(N00037)
427 DC XL2'0037'

I6404 --- MANUAL ROUTINE P/N=1635087 EC=755285 PAGE 03
 LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976

```

00266E F0F0F8F061C2C4C3F 539+ DC C'0080/BDC0/0001///0084/0000/0000/0006'
002693 00 540+ ALIGN WORD
002694 196E 541+ DC AL2(PARMARA)
542 N00015 $FIXT FT=(F00086)
543 N00015 DC A(@FIXT)
544+ DC A(F00086)
002696 0101 545 N00016 $QUES QT=(000089),YES=N00018,CT=(C00014)
002698 29A2 546 N00016 DC A(@QUES)
00269A 0100 547+ DC AL2(N00018)
00269C 26AA 548 N00017 $GOTO TYPE=INTRNL,EP=B,FT=(F00093),GTO=(N00044)
549 N00017 DC A(@GOTO)
00269E 0200 550+ DC A(F00093)
0026A0 29DC 551+ DC CL4'3C00'
0026A2 F3C3F0F0 552+ DC CL2'B'
0026A6 C240 553+ DC AL2(INTRNL)
0026A8 0000 554 N00018 $GOTO TYPE=INTRNL,EP=A,FT=(F00095),GTO=(N00001)
555 N00018 DC A(@GOTO)
0026AA 0200 556+ DC A(F00095)
0026AC 29EE 557+ DC CL4'3C00'
0026AE F3C3F0F0 558+ DC CL2'A'
0026B2 C140 559+ DC AL2(INTRNL)
0026B4 0000 560 N00019 $TUXX T6404,02,0703,EQ,PLNG=33,PARM=0080/BDC0///0084/0000/00X
561 N00019 DC A(@TUXX)
0026B6 0500 562+ DC AL2(N00021)
0026B8 26E5 563+ DC A(T6404)
0026BA 2C5A 564+ DC AL2(EQ)
0026BC 0000 565+ DC AL2(02)
0026BE 0002 566+ DC X'0703'
0026C0 0703 567+ ALIGN WORD
0026C2 0021 568+ DC AL2(33)
0026C4 F0F0F8F061C2C4C3F 569+ DC C'0080/BDC0///0084/0000/0000/0006'
0026E5 00 570+ ALIGN WORD
0026E6 196E 571+ DC AL2(PARMARA)
572 N00020 $FIXT FT=(F00103)
573 N00020 DC A(@FIXT)
0026E8 0101 574+ DC A(F00103)
0026EA 2A02 575 N00021 $QUES QT=(000106),YES=N00023,CT=(C00014)
0026EC 0100 576+ DC A(@QUES)
0026EE 26FC 577+ DC AL2(N00023)
578 N00022 $GOTO TYPE=INTRNL,EP=B,FT=(F00110),GTO=(N00044)
579 N00022 DC A(@GOTO)
0026F0 0200 580+ DC A(F00110)
0026F2 2A3C 581+ DC CL4'3C00'
0026F4 F3C3F0F0 582+ DC CL2'B'
0026F8 C240 583+ DC AL2(INTRNL)
0026FA 0000 584 N00023 $GOTO TYPE=INTRNL,EP=A,FT=(F00112),GTO=(N00001)
585 N00023 DC A(@GOTO)
0026FC 0200 586+ DC A(F00112)
0026FE 2A4E 587+ DC CL4'3C00'
002700 F3C3F0F0 588+ DC CL2'A'
002704 C140 589+ DC AL2(INTRNL)
002706 0000 590 N00024 $QUES QT=(000114),YES=N00030,CT=(C00014)
591 N00024 DC A(@QUES)
002708 0100 592+ DC AL2(N00030)
00270A 2762 593 N00025 $TUXX T6404,02,0703,EQ,PLNG=37,PARM=0088/BDC0/0011///0084/010X
594 N00025 DC A(@TUXX)
00270C 0500 595+ DC AL2(N00027)
00270E 2746 596+ DC A(T6404)
002710 C5A 597+ DC AL2(EQ)
002712 0000 598+ DC AL2(02)
002714 0002 599+ DC X'0703'
002716 0703 600+ ALIGN WORD
002718 0025 601+ DC AL2(37)
00271A F0F0F8F861C2C4C3F 602+ DC C'0088/BDC0/0001///0084/0100/0000/000A'
00273F 00 603+ ALIGN WORD
002740 196E 604+ DC AL2(PARMARA)
605 N00026 $FIXT FT=(F00124)
606 N00026 DC A(@FIXT)
002742 0101 607+ DC A(F00124)
002744 2A62 608 N00027 $QUES QT=(000127),YES=N00029,CT=(C00014)
609 N00027 DC A(@QUES)
002746 0100 610+ DC AL2(N00029)
002748 2756 611 N00028 $GOTO TYPE=INTRNL,EP=B,FT=(F00131),GTO=(N00044)
612 N00028 DC A(@GOTO)
00274A 0200 613+ DC A(F00131)
00274C 2A9C 614+ DC CL4'3C00'
00274E F3C3F0F0 615+ DC CL2'B'
002752 C240 616+ DC AL2(INTRNL)
002754 0000 617 N00029 $GOTO TYPE=INTRNL,EP=A,FT=(F00133),GTO=(N00001)
618 N00029 DC A(@GOTO)
002756 0200 619+ DC A(F00133)
002758 2AAE 620+ DC CL4'3C00'
00275A F3C3F0F0 621+ DC CL2'A'
00275E C140 622+ DC AL2(INTRNL)
002760 0000 623 N00030 $TUXX T6404,02,0703,EQ,PLNG=37,PARM=0088/BDC0/0011///0084/010X
624 N00030 DC A(@TUXX)
002762 0500 625+ DC AL2(N00032)
002764 279C 626+ DC A(T6404)
002766 2C5A 627+ DC AL2(EQ)
002768 0000 628+ DC AL2(02)
00276A 0002 629+ DC X'0703'
00276C 0703 630+ ALIGN WORD
00276E 0025 631+ DC AL2(37)
002770 F0F0F8F061C2C4C3F 632+ DC C'0080/BDC0/0001///0084/0100/0000/000A'
002795 00 633+ ALIGN WORD
002796 196E 634+ DC AL2(PARMARA)
635 N00031 $FIXT FT=(F00141)
636 N00031 DC A(@FIXT)
002798 0101 637+ DC A(F00141)
00279A 2AC2 638 N00032 $QUES QT=(000144),YES=N00034,CT=(C00014)
639 N00032 DC A(@QUES)
00279C 0100 640+ DC AL2(N00034)
00279E 27AC 641 N00033 $GOTO TYPE=INTRNL,EP=B,FT=(F00148),GTO=(N00044)
642 N00033 DC A(@GOTO)
0027A0 0200 643+ DC A(F00148)
0027A2 2AFC 644+ DC CL4'3C00'
0027A4 F3C3F0F0 645+ DC CL2'B'
0027A8 C240 646+ DC AL2(INTRNL)
0027AA 0000 647 N00034 $GOTO TYPE=INTRNL,EP=A,FT=(F00150),GTO=(N00001)
648 N00034 DC A(@GOTO)
0027AC 0200 649+ DC A(F00150)
0027AE 2B0E 650+ DC CL4'3C00'
0027B0 F3C3F0F0 651+ DC CL2'A'
0027B4 C140 652+ DC AL2(INTRNL)
0027B6 0000

```

I6404 --- MANUAL ROUTINE P/N=1635087 EC=755285 PAGE 03A
 LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976

```

653 N00035 $QUES QT=(000152),YES=N00041,CT=(C00014)
654 N00035 DC A(@QUES)
0027B8 0100 655+ DC AL2(N00041)
0027BA 2812 656 N00036 $TUXX T6404,02,0703,EQ,PLNG=37,PARM=0088/BDC0/0001///0084/000X
657 N00036 DC A(@TUXX)
0027BC 0500 658+ DC AL2(N00038)
0027BE 27F6 659+ DC A(T6404)
0027C0 2C5A 660+ DC AL2(EQ)
0027C2 0000 661+ DC AL2(02)
0027C4 0002 662+ DC X'0703'
0027C6 0703 663+ ALIGN WORD
0027C8 0025 664+ DC AL2(37)
0027CA F0F0F8F861C2C4C3F 665+ DC C'0088/BDC0/0001///0084/0000/0000/C80A'
0027EF 00 666+ ALIGN WORD
0027F0 196E 667+ DC AL2(PARMARA)
668 N00037 $FIXT FT=(F00163)
669 N00037 DC A(@FIXT)
0027F2 0101 670+ DC A(F00163)
0027F4 2B22 671 N00038 $QUES QT=(000166),YES=N00040,CT=(C00014)
0027F6 0100 672+ DC A(@QUES)
0027F8 2806 673+ DC AL2(N00040)
674 N00039 $GOTO TYPE=INTRNL,EP=B,FT=(F00170),GTO=(N00044)
675 N00039 DC A(@GOTO)
0027FA 0200 676+ DC A(F00170)
0027FC 2B5C 677+ DC CL4'3C00'
0027FE F3C3F0F0 678+ DC CL2'B'
002802 C240 679+ DC AL2(INTRNL)
002804 0000 680 N00040 $GOTO TYPE=INTRNL,EP=A,FT=(F00172),GTO=(N00001)
681 N00040 DC A(@GOTO)
002806 0200 682+ DC A(F00172)
002808 2B6E 683+ DC CL4'3C00'
00280A F3C3F0F0 684+ DC CL2'A'
00280E C140 685+ DC AL2(INTRNL)
002810 0000 686 N00041 $TUXX T6404,02,0703,EQ,PLNG=37,PARM=0080/BDC0/0011///0084/000X
687 N00041 DC A(@TUXX)
002812 0500 688+ DC AL2(N00043)
002814 284C 689+ DC A(T6404)
002816 2C5A 690+ DC AL2(EQ)
002818 0000 691+ DC AL2(02)
00281A 0002 692+ DC X'0703'
00281C 0703 693+ ALIGN WORD
00281E 0025 694+ DC AL2(37)
002820 F0F0F8F061C2C4C3F 695+ DC C'0080/BDC0/0001///0084/0000/0000/C80A'
002845 00 696+ ALIGN WORD
002846 196E 697+ DC AL2(PARMARA)
698 N00042 $FIXT FT=(F00181)
699 N00042 DC A(@FIXT)
002848 0101 700+ DC A(F00181)
00284A 2B82 701 N00043 $QUES QT=(000184),YES=N00047,CT=(C00014)
00284C 0100 702+ DC A(@QUES)
00284E 2886 703+ DC AL2(N00047)
704 N00044 $TUXX T6404,02,0000,EQ,PLNG=29,PARM=2000///000C/A20D/0000/0X
705 N00044 DC A(@TUXX)
002850 0500 706+ DC AL2(N00046)
002852 2882 707+ DC A(T6404)
002854 2C5A 708+ DC AL2(EQ)
002856 0000 709+ DC AL2(02)
002858 0002 710+ DC X'0703'
00285A 0000 711+ ALIGN WORD
00285C 001D 712+ DC AL2(29)
00285E F2F0F0F0616161616 713+ DC C'2000///000C/A20D/0000/0001'
00287B 00 714+ ALIGN WORD
00287C 196E 715+ DC AL2(PARMARA)
716 N00045 $FIXT FT=(F00195),CT=(C00015)
717 N00045 DC A(@FIXT)
00287E 0101 718+ DC A(F00195)
002880 2B8C 719 N00046 $STOP FT=(F00198)
720 N00046 DC A(@STOP)
002882 0102 721+ DC A(F00198)
002884 2B82 722 N00047 $GOTO TYPE=INTRNL,EP=A,FT=(F00200),GTO=(N00001)
723 N00047 DC A(@GOTO)
002886 0200 724+ DC A(F00200)
002888 2BF8 725+ DC CL4'3C00'
00288A F3C3F0F0 726+ DC CL2'A'
00288E C140 727+ DC AL2(INTRNL)
002890 0000 728+ DC AL2(DUMMY)
002892 0000 729 ENTPT EQU *
730 *****
731 *****
732 *****
733 ** ENTRY POINT TABLE **
734 **
735 *****
736 *****
737 *****
738+ DC ENTPT EP=A,STEP=00001
739+ DC CL2'A'
740 DC A(N00001)
741 ENTPT EP=B,STEP=00044
742+ DC CL2'B'
743 DC A(N00044)
744 DC AL2(DUMMY)
745 *****
746 *****
747 ** MESSAGE TABLE **
748 **
749 *****
750 *****
751 P00020 EQU *
752 DC AL2(0001)
753 DC A(0034)
754 DC C10034'REPLACE THE 4974 ATTACHMENT CARD.'
755 F00052 EQU *
756 DC AL2(0003)
757 DC A(0032)
758 DC C10032'YOU HAVE ENTERED THE WRONG MAP.'
759 DC A(0044)
760 DC C10044'RETURN TO THE MAP THAT YOU WERE WORKING WITH'
761 DC A(0042)
762 DC C10042'AND FIND OUT WHICH ROUTINE YOU SHOULD RUN.'
763 F00068 EQU *
764 DC AL2(0002)
765 DC A(0014)
766 DC C10014'PRINT PROBLEM.'

```

T6404 --- MANUAL ROUTINE P/N=1635087 EC=755285 PAGE 04
 LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976

```

002954 0026 767 DC A(0038)
002956 D9C5E3E4D9D540E3D 768 DC C10038'RETURN TO THE MAP THAT SENT YOU HERE. '
00297C 0001 769 F00075 EQU *
00297C 0001 770 DC AL2(0001)
00297E 000E 771 DC A(0014)
002980 C5E7C9E340E3C8C9E 772 DC C10014'EXIT THIS MAP.'
00298E 0001 773 F00077 EQU *
00298E 0001 774 DC AL2(0001)
002990 0010 775 DC A(0016)
002992 D9C5E3E4D9D540E3D 776 DC C10016'RETURN TO START '
0029A2 0002 777 F00086 EQU *
0029A2 0002 778 DC AL2(0002)
0029A4 000E 779 DC A(0014)
0029A6 D7D9C9D5E340D7D9D 780 DC C10014'PRINT PROBLEM.'
0029B4 0026 781 DC A(0038)
0029B6 D9C5E3E4D9D540E3D 782 DC C10038'RETURN TO THE MAP THAT SENT YOU HERE. '
0029DC 0001 783 F00093 EQU *
0029DC 0001 784 DC AL2(0001)
0029DE 000E 785 DC A(0014)
0029E0 C5E7C9E340E3C8C9E 786 DC C10014'EXIT THIS MAP.'
0029EE 0001 787 F00095 EQU *
0029EE 0001 788 DC AL2(0001)
0029F0 0010 789 DC A(0016)
0029F2 D9C5E3E4D9D540E3D 790 DC C10016'RETURN TO START '
002A02 0002 791 F00103 EQU *
002A02 0002 792 DC AL2(0002)
002A04 000E 793 DC A(0014)
002A06 D7D9C9D5E340D7D9D 794 DC C10014'PRINT PROBLEM.'
002A14 0026 795 DC A(0038)
002A16 D9C5E3E4D9D540E3D 796 DC C10038'RETURN TO THE MAP THAT SENT YOU HERE. '
002A3C 0001 797 F00110 EQU *
002A3C 0001 798 DC AL2(0001)
002A3E 000E 799 DC A(0014)
002A40 C5E7C9E340E3C8C9E 800 DC C10014'EXIT THIS MAP.'
002A4E 0001 801 F00112 EQU *
002A4E 0001 802 DC AL2(0001)
002A50 0010 803 DC A(0016)
002A52 D9C5E3E4D9D540E3D 804 DC C10016'RETURN TO START '
002A62 0002 805 F00124 EQU *
002A62 0002 806 DC AL2(0002)
002A64 000E 807 DC A(0014)
002A66 D7D9C9D5E340D7D9D 808 DC C10014'PRINT PROBLEM.'
002A74 0026 809 DC A(0038)
002A76 D9C5E3E4D9D540E3D 810 DC C10038'RETURN TO THE MAP THAT SENT YOU HERE. '
002A9C 0001 811 F00131 EQU *
002A9C 0001 812 DC AL2(0001)
002A9E 000E 813 DC A(0014)
002AA0 C5E7C9E340E3C8C9E 814 DC C10014'EXIT THIS MAP.'
002AAE 0001 815 F00133 EQU *
002AAE 0001 816 DC AL2(0001)
002AB0 0010 817 DC A(0016)
002AB2 D9C5E3E4D9D540E3D 818 DC C10016'RETURN TO START '
002AC2 0002 819 F00141 EQU *
002AC2 0002 820 DC AL2(0002)
002AC4 000E 821 DC A(0014)
002AC6 D7D9C9D5E340D7D9D 822 DC C10014'PRINT PROBLEM.'
002AD4 0026 823 DC A(0038)
002AD6 D9C5E3E4D9D540E3D 824 DC C10038'RETURN TO THE MAP THAT SENT YOU HERE. '
002AFC 0001 825 F00148 EQU *
002AFC 0001 826 DC AL2(0001)
002AF0 000E 827 DC A(0014)
002AF2 C5E7C9E340E3C8C9E 828 DC C10014'EXIT THIS MAP.'
002F0E 0001 829 F00150 EQU *
002F0E 0001 830 DC AL2(0001)
002B10 0010 831 DC A(0016)
002B12 D9C5E3E4D9D540E3D 832 DC C10016'RETURN TO START '
002B22 0002 833 F00163 EQU *
002B22 0002 834 DC AL2(0002)
002B24 000E 835 DC A(0014)
002B26 D7D9C9D5E340D7D9D 836 DC C10014'PRINT PROBLEM.'
002B34 0026 837 DC A(0038)
002B36 D9C5E3E4D9D540E3D 838 DC C10038'RETURN TO THE MAP THAT SENT YOU HERE. '
002B5C 0001 839 F00170 EQU *
002B5C 0001 840 DC AL2(0001)
002B5E 000E 841 DC A(0014)
002B60 C5E7C9E340E3C8C9E 842 DC C10014'EXIT THIS MAP.'
002B6E 0001 843 F00172 EQU *
002B6E 0001 844 DC AL2(0001)
002B70 0010 845 DC A(0016)
002B72 D9C5E3E4D9D540E3D 846 DC C10016'RETURN TO START '
002B82 0002 847 F00181 EQU *
002B82 0002 848 DC AL2(0002)
002B84 000E 849 DC A(0014)
002B86 D7D9C9D5E340D7D9D 850 DC C10014'PRINT PROBLEM.'
002B94 0026 851 DC A(0038)
002B96 D9C5E3E4D9D540E3D 852 DC C10038'RETURN TO THE MAP THAT SENT YOU HERE. '
002B9C 0001 853 F00195 EQU *
002B9C 0001 854 DC AL2(0001)
002B9E 0022 855 DC A(0034)
002BC0 D9C5D7D3C1C3C540E 856 DC C10034'REPLACE THE 4974 ATTACHMENT CAPD. '
002BE2 0001 857 F00198 EQU *
002BE2 0001 858 DC AL2(0001)
002BE4 0012 859 DC A(0018)
002BE6 C5D5C440D6C640D4C 860 DC C10018'END OF MANUAL MAP.'
002BF8 0001 861 F00200 EQU *
002BF8 0001 862 DC AL2(0001)
002BFA 0010 863 DC A(0016)
002BFC D9C5E3E4D9D540E3D 864 DC C10016'RETURN TO START '
002C0C 0000 865 HDIT 0206
002C0E 0000 867+OPTN1 DC X'0000' PROGRAM OPTION CONTROL WORD 1
002C0E 0000 868+* 000000C
002C0E 0000 869+OPTN2 DC X'0000' PPOGRAM OPTION CONTROL WORD 2
002C0E 0000 870+* 000000E
000010 871+B48 EQU 16 0 8 *
000011 872+B49 EQU 17 1 4 *
000012 873+B50 EQU 18 2 2 *
000013 874+B51 EQU 19 3 1 *
000014 875+B52 EQU 20 4 8 *
000015 876+B53 EQU 21 5 4 *
000016 877+B54 EQU 22 6 2 *
000017 878+B55 EQU 23 7 1 *
000018 879+B56 EQU 24 8 8 *
000019 880+B57 EQU 25 9 4 *
00001A 881+B58 EQU 26 10 2 *
  
```

T6404 --- MANUAL ROUTINE P/N=1635087 EC=755285 PAGE 04A
 LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM COPP 1976

```

00001B 882+B59 EQU 27 11 1 *
00001C 883+B60 EQU 28 12 8 *
00001D 884+B61 EQU 29 13 4 *
00001E 885+B62 EQU 30 14 2 *
00001F 886+B63 EQU 31 15 1 *
00001E 887+CH EQU 30 14 2 *
00001F 888+CHP EQU 31 15 1 *
002C10 890+OPTN3 DC X'0000' CHARACTER SUPPLIED
000020 000020 902+MI EQU 32 0 8 *
000021 903+ER EQU 33 1 4 *
000022 904+XI EQU 34 2 2 *
000023 905+IN EQU 35 3 1 *
000024 906+XE EQU 36 4 8 *
000025 907+HE EQU 37 5 4 *
000026 908+SLE EQU 38 6 2 *
000027 909+NI EQU 39 7 1 *
000028 910+CS EQU 40 8 8 *
000029 911+CSA EQU 41 9 4 *
00002A 912+CE EQU 42 10 2 *
00002B 913+ISBON EQU 43 11 1 *
00002C 914+NG EQU 44 12 8 *
00002D 915+IOCC EQU 45 13 4 *
00002E 916+NOIN EQU 46 14 2 *
00002F 917+INCC EQU 47 15 1 *
00002F 918+* EQU 47 15 1 *
00002F 919+* COMMON BUFFER FOR PRINTING DATA
00002F 920+*
002C12 0000 922+STUID DC A(*-*) TEST UNIT IDENTIFICATION
002C14 0000 923+STOIN DC A(*-*) I/O AND INTR CONDITION CODES
002C16 0000 924+SISB DC A(*-*) R7, INTR STATUS BYTE & DEV ADPS
002C18 0000 925+LSTIO DC A(*-*) ADRS OF LAST I/O + 4 BYTES
002C1A 0000 926+DEV1 DC A(*-*) DEVICE DEPENDENT DATA
002C1C 0000 927+DEV2 DC A(*-*) *
002C1E 0000 928+DEV3 DC A(*-*) *
002C20 0000 929+DEV4 DC A(*-*) *
002C22 930+SCBUF EQU DEV1 READ ID BUFFER FOR IBIS & TERN
002C22 0000 931+DCBUF EQU * DCB BUFFER FOR LAST DCB USED
002C22 0000 932+DCB1 DC A(*-*) LAST DCB TABLE, CONTROL WORD
002C24 0000 933+DCB2 DC A(*-*) LAST DCB TABLE, DEV DEP WORD
002C26 0000 934+DCB3 DC A(*-*) LAST DCB TABLE, DEV DEP WORD
002C28 0000 935+DCB4 DC A(*-*) LAST DCB TABLE, DEV DEP WORD
002C2A 0000 936+DCB5 DC A(*-*) LAST DCB TABLE, DEV DEP WORD
002C2C 0000 937+DCB6 DC A(*-*) LAST DCB TABLE, CHAIN ADRS
002C2E 0000 938+DCB7 DC A(*-*) LAST DCB TABLE, BYTE COUNT
002C30 0000 939+DCB8 DC A(*-*) LAST DCB TABLE, BUFFER ADDRESS
002C32 0000 940+*
002C34 0000 941+CSBUF EQU * CYCLE STEAL DATA BUFFER
002C36 0000 942+CSTL1 DC A(*-*) CYCLE STEAL BUFFER, RESIDUAL ADRS
002C38 0000 943+CSTL2 DC A(*-*) CYCLE STEAL WD 2, DEVICE DEPEND
002C3A 0000 944+CSTL3 DC A(*-*) CYCLE STEAL WD 3, DEVICE DEPEND
002C3C 0000 945+CSTL4 DC A(*-*) CYCLE STEAL WD 4, DEVICE DEPEND
002C3E 0000 946+CSTL5 DC A(*-*) CYCLE STEAL WD 5, DEVICE DEPEND
002C40 0000 947+CSTL6 DC A(*-*) CYCLE STEAL WD 6, DEVICE DEPEND
002C42 0000 948+CSTL7 DC A(*-*) CYCLE STEAL WD 7, DEVICE DEPEND
002C44 00000000 949+CSTL8 DC A(*-*) CYCLE STEAL WD 8, DEVICE DEPEND
002C46 0021 950+*
002C48 0000 951+SSUBN DC A(*-*) LAST SUBROUTINE ADDRESS USED
002C4C 0206 952+SDATA DC 2A(*-*) OPTIONAL DATA
002C4E 19D0 953+INTL DC X'0021' INTERRUPT LEVEL REQUESTED
002C50 0000 954+TURTN DC A(*-*) TEST UNIT RETURN ADRS TO MDI
002C52 19D0 955+SDV DC X'0206' DEV ID
002C54 19D0 956+SVCAL DC A(DEVADD) ADRS OF DEVICE ADDRESS
002C56 0000 957+* DC A(*-*) IBIS CYLINDER ADDRESS
958+*
959+* THIS TEST UNIT WILL RETURN TO MDI WITHOUT DOING ANY PROGRAM
960+* FUNCTION. THE RESULTS THAT WERE SET UP IN THE RESULTS AREA APE
961+* STILL VALID BUT A DIFFERENT TEST IS TO BE PERFORMED.
962+*
963+T3C02 MVNI X'3C02',STUID SET UP TEST UNIT ID
964+ BXS (R7) RETURN TO MDI SUPVR
965+ ***** COPY COMEQU *****
966 *****
967 *****
968 *****
969 ***** EQUATED NAMES FOR SUPPORTED SVC'S *****
970 *****
971 *****
972 OUT EQU 0 OUT SVC
973 OUTIN EQU 1 OUTIN SVC
974 IDLE EQU 2 IDLE SVC
975 ASCII EQU 3 HEX TO ASCII SVC
976 CHNGE EQU 4 CHANGE LEVEL SVC
977 PGMCK EQU 5 ALLOW RETURN ON PROGRAM CHECK SVC
978 EXIT EQU 6 EXIT SVC
979 TRM EQU 7 TERMINATE SVC
980 RSTRT EQU 8 RESET DEVICE SVC
981 RTD EQU 9 READ ID SVC
982 START EQU 10 START CYCLE STEAL SVC
983 STCSS EQU 11 START CYCLE STEAL STATUS SVC
984 PREP EQU 12 PREPARE DEVICE SVC
985 READ0 EQU 13 READ WITH FUNCTION BIT 3 OFF SVC
986 READ1 EQU 14 READ WITH FUNCTION BIT 3 ON SVC
987 RSTAT EQU 15 READ STATUS SVC
988 WRIT0 EQU 16 WRITE WITH FUNCTION BIT 3 OFF SVC
989 WRIT1 EQU 17 WRITE WITH FUNCTION BIT 3 ON SVC
990 CTRL EQU 18 CONTROL SVC
991 RIBC EQU 19 RELEASE INTERRUPT CONTROL BLOCK SVC
992 CICB EQU 20 CONNECT INTERRUPT CONTROL BLOCK SVC
993 HIO EQU 21 HALT ALL I/O
994 REQSD EQU 22 REQUEST USE OF DCP DISK SVC
995 RELSD EQU 23 RELEASE USE OF DCP DISK SVC
996 HALT EQU 24 HALT SVC
997 ETOH EQU 25 EBCDIC TO HEX SVC (STRING)
998 HTOE EQU 26 HEX TO EBCDIC SVC (STRING)
  
```

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGTH IBM CORP 1976
999 ATOH EQU 27 ASCII TO HEX SVC (STPING)
1000 HTOA EQU 28 HEX TO ASCII SVC (STRING)
1001 ETOA EQU 29 EBCDIC TO ASCII SVC (STRING)
1002 ATOE EQU 30 ASCII TO EBCDIC SVC (STPING)
1003 READI EQU 31 READ DATA SETS FOR MDI/UTIL
1004 WRITI EQU 32 WRITE DATA SETS FOR UTIL
1007 * *****
1008 * EQUATES USED BY TU'S AS CONSTANTS *
1010 *****
1011 PLUS EQU C '+' PLUS CHAR
1012 MINUS EQU C '-' MINUS CHAR
1014 ZERO EQU 0
1015 ONE EQU 1
1016 TWO EQU 2
1017 THREE EQU 3
1018 FOUR EQU 4
1019 FIVE EQU 5
1020 SIX EQU 6
1021 SEVEN EQU 7
1022 EIGHT EQU 8
1023 NINE EQU 9
1024 TEN EQU 10
1025 ELEVN EQU 11
1026 TWELV EQU 12
1027 THRTN EQU 13
1028 FIVTN EQU 15
1029 SIXTN EQU 16
1030 THRY2 EQU 32
1031 SIXTY4 EQU 64
1032 ONE28 EQU 128
1033 TWO56 EQU 256
1034 ONEK EQU 1024
1035 THOK EQU 2048
1036 THREK EQU 3072
1037 FOUFK EQU 4096
1039 M1 EQU -1
1040 M2 EQU -2
1041 M3 EQU -3
1042 M4 EQU -4
1045 * *****
1046 * THE FOLLOWING ARE EQUATES FOR BIT DISPLACEMENTS FROM THE *
1047 * BEGINNING OF THE BYTE TO EACH BIT IN THE WORD OF SWITCHES. *
1048 * *****
1049 *****
1050 BS0 EQU 0
1051 BS1 EQU 1
1052 BS2 EQU 2
1053 BS3 EQU 3
1054 BS4 EQU 4
1055 BS5 EQU 5
1056 BS6 EQU 6
1057 BS7 EQU 7
1058 BS8 EQU 8
1059 BS9 EQU 9
1060 BS10 EQU 10
1061 BS11 EQU 11
1062 BS12 EQU 12
1063 BS13 EQU 13
1064 BS14 EQU 14
1065 BS15 EQU 15
1067 T6404 COPY T6404
1068 T6404 TUIT
1069 *****06FEB76**
1070**
1071** TEST UNIT
1072**
1073** ISSUE AN I/O COMMAND USING SUPPLIED DCB 13JUL76
1074**
1075** PUPPOSE
1076**
1077** TO ISSUE AN I/O COMMAND THAT HAS BEEN SET UP IN THE DCB.
1078** IF TUPARM6 IS NOT ZERO A STAPT CYCLE STEAL STATUS COMMAND WILL
1079** BE ISSUED AFTER THE FIRST I/O COMMAND HAS BEEN COMPLETED.
1080** TUPARM9 INDICATES THE DISPLACEMENT OF THE WORD OF DATA THAT IS
1081** REQUESTED TO BE SENT BACK TO COMPARE.
1082**
1083** CALLING SEQUENCE
1084**
1085** MDI=@TUXY,T6404,2,0703,EO,PLNG=XX,PAPM=PRM1/PRM2/PRM3/PRM4/PRM5/
1086** PRM6/PRM7/CBOM/DISP/CHLP
1087**
1088** WHERE THE PARAMETERS HAVE THE FOLLOWING MEANING:
1089**
1090** PARM
1091** 1 PRM1= THE CONTROL INFORMATION FOUND IN THE DCB
1092** 2 PRM2= FORMS
1093** 3 PRM3= SK/SP
1094** 4 PRM4= H/L ADR
1095** 5 PRM5= P,K,B,S
1096** 6 PRM6= BYTE COUNT FOR THE STAPT CYCLE STATUS, IF USED
1097** 7 PRM7= THE BYTE COUNT FOR THE DATA TO BE TRANSFERRED
1098** 8 C = THE BUFFER NUMBER THAT DATA IS BEING REQUESTED FROM,
1099** 0- NO DATA BEING REQUESTED, 1- WRITE BUFFER,
1100** 2- DIAG BUFFER, 3- CS STATUS BUFFER, 4- READ BUFFER,
1101** A- A SPECIAL DIAGNOSTIC COMPARE OF THE CHECKSUM AND THE
1102** RESULTS ARE TO BE SENT BACK TO MDI TO BE CHECKED.
1103** B = THE BUFFER NUMBER THAT IS TO BE USED AS AN OUTPUT BUFFER,
1104** 0- CHAR SUPPLIED- WRITE BUFFER 1- RIPPLE PATTERN
1105** 2- DIAG BUFFER, 3- CS STATUS BUFFER, 4- READ BUFFER,
1106** 5- DIAG XFR BUFFER.
1107** OM = THE MODIFIER OF THE CYCLE STEAL COMMAND.
1108** 9 DISP= THE DISPLACEMENT WITHIN THE SELECTED BUFFER.
1109** 10 CH = THE EBCDIC CHARACTER THAT IS SUPPLIED.
1110** LP = THE NUMBER OF TIMES THE FIRST I/O COMMAND IS TO BE DONE.
1111** // = A '/' INDICATES THAT NO VALUE IS SUPPLIED.
1112**
1113** RETUPN CONTROL
1114**
1115** B TURTN* RETURN TO MDI SUPEPVISOR
1116**
1117*****

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGTH IBM COPP 1976
002C5A 6F0D 2C4A 6404 1118+T6404 MVW R7,TURTN SAVE RETURN ADDRESS
002C5E 4020 2C12 1119+ MVWI X'6404',STUID SAVE TU ID FOR DISPLAY
002C64 4424 2C0C 1120+ MVA OPTN1,R4 SET UP POINTER ADRS IN R4
002C68 6E03 2F34 1121+ BAL \$CONC,R6 CLEAR DEV DEP STG AND CONNECT I/O BL
002C6C 2F68 1122+ DC A(\$EFP5) ERPOR ADPS FOR INVALID PPEP
1123**
1124 MVWZ OPTN2,R1 CLEAR OPTION 2
1125 MVBI 12,R1 SET UP LOOP CNIL TO BUILD THE DCB
1126 T6404B MVW (R1,TUPARM1),R2 GET THE ADRS OF THE PARM PER R1
1127 JZ T6404C * AND CHECK FOR NO ENTPY
1128 MVW (R1,TUPARM1)*,R0 MOVE THE DATA INTO A PEG AND
1129 MVW R0,(R1,TUPARM1) * THEN INTO THE DCB TAELE
1130 T6404C ABI -2,R1 ADJUST CONTROL REG
1131 JNN T6404B * AND DO THE NEXT PARM IF NOT NEG
1132 *
1133 MVW TUPARM6,CSBCT MOVE BYTE COUNT INTO CS DCB ENTPY
1134 MVW TUPARM8,R3 GET ADRS OF BUFF # AND MOD
1135 T6404E JZ T6404E BCH IF NO BUFFER OR MODIFIEP
1136 MVW (R3),R3 MOVE BUFFER # AND MOD INTO REG
1137 MVW R3,R3 SAVE BUFFER FROM # FOR LATER
1138 JNN T6404D BCH IF NO COMPARE OPEARATION
1139 TBTS (R4,CMP) SET COMPARE SWITCH
1140 T6404D RBTWI X'F000',R3 RESET COMPARE CONTROL BIT
1141 T6404E MVB R3,TOMOD+1 PUT MODIFIER IN IO BLOCK AND
1142 SRL 8,R3 * POSITION BUFFER NUMBER AND MULT
1143 SLL 1,R3 * TIMES TWO SO THAT THE PGH MAY
1144 JNZ T6404G BCH IF BUFF #1-4 BEING REQUESTED
1145 TBTS (R4,CH) SET 'CHAR SUPPLIED' CONTROL BIT
1146 T6404G MVW (R3,T6404V),TUPARM8 MOVE PROPEP BUFFER ADPS INTO DCB
1147 *
1148 MVW TUPARM10,R1 GET ADRS OF LOOP COUNT AND
1149 JZ T6404I * BCH IF ZERO
1150 MVW (R1),R1 MOVE LOOP COUNT INTO R1, NOT ZEP0
1151 MVW R1,R0 SAVE LOOP COUNT TO USE LATEP
1152 NWI X'00FF',R0 REMOVE EBC CHARACTER SUPPLIED
1153 TBTS (R4,CH) CHECK FOR 'CHAR SUPPLIED' CNIL BIT
1154 JZ T6404I BCH IF NOT FILL BUFFER AND ISSUE I/O
1155 SPL 8,R1 POSITION THE EBC CHAPACTER SUPPLIED
1156 MVW TUPARM7,R7 GET THE BYTE COUNT FROM DCB TAELE
1157 AWI 16,R7 ADD TO CLEAR BUFFER FROM POWER UP
1158 MVW TUPARM8,R3 * AND THE BUFFER ADPS
1159 FPH R1,(R3) * AND FILL THE BUFFER
1160 T6404I MVA TUPARM1,IODCB SET DCB ADRS IN IO BLOCK
1161 NOP
1162 XIO1,P6 GO ISSUE I/O VIA DCP
1163 DC A(T6404X) ERROR RTN ADRS
1164 TWI X'10C0',OPWD1 IS ANY LOOPING ON ?
1165 JZ T6404L * NO, BYPASS DELAY
1166 TWI X'00C8',P1 * YES; IS PRINT 'H' ON ?
1167 JN T6404J * YES, GO DO DELAY
1168 TBTS (R2,7) * NO; IS RIPPLE PRINT ON ?
1169 JZ T6404L * NO, BYPASS DELAY
1170 T6404J MVW T6404Z, T6404Z * YES, SET DELAY COUNTER
1171 T6404K SVC 200, T6404Z GET 200 US DELAY (TOT DELAY=1.3 SEC)
1172 AWI -1,T6404Z DECREMENT DELAY COUNTER
1173 JNZ T6404K GO GET MORE DELAY IF COUNT NOT 0
1174 T6404L AWI 1,TUPARM8 ADVANCE WRITE BUFFER ADPS
1175 JCT T6404I,R0 * AND LOOP UNTIL R0= 0
1176 *
1177 MVW CSBCT,R3 GET THE BYTE COUNT FOR CS STATUS
1178 JZ T6404M * AND BCH IF NO BYTE COUNT
1179 BAL XIOCS-4,P6 GO GET CYCLE STEAL STATUS
1180 DC A(\$EFR5) ERROR RTN ADRS
1181 *
1182 T6404M SLL 1,P2 REMOVE CONTROL BIT
1183 SRL 15,R2 * AND POSITION IT TO SELECT BUFFER
1184 JZ T6404X * NO, BCH TO EXT FUNCTION
1185 MVW TUPARM9*,R1 GET THE BYTE DISPLACEMENT
1186 AW (R2,T6404V),R1 ADD BUFFER ADRS TO DISPLACEMENT
1187 MVW (R1),R3 GET WORD DEFINED AND THEN CHECK
1188 TBTS (P4,CMP) IS THE BUFFER # INDICATE DIAG BJJFEP
1189 JZ T6404S * NO, CONTINUE FUNCTION REQUIRED
1190 XW (R1,2),R3 * YES, XOR WITH SECOND WORD AND
1191 AWI 1,R3 * ADJ RESULTS TO BE ZEP0 THEN
1192 T6404S MVW R3,TURESUL * SEND IT BACK TO MDI
1193 J T6404Y
1194 T6404X MVW XIOCN,TURESUL MOVE CONDITION CODES INTO MDI TO CK
1195 T6404Y MVW 16,CSBCT RESTORE CS BYTE COUNT
1196 *
1197 B \$CONX RETURN TO MDI CONTROLLER
1198 *****
1199 T6404Z DC A(*-*) DELAY COUNTER
1200 *
1201 * BUFFER ADDRESS TABLE
1202 *
1203 T6404V DC A(WRBUF) 0= WRITE BUFFER FOR SUPPLIED CHAP
1204 DC A(TCHAR) 1= WRITE BUFFER
1205 DC A(DIAGBF) 2= DIAGNOSTIC BUFFER
1206 DC A(CSBUF) 3= CS STATUS BUFFER
1207 DC A(RDBUF) 4= READ BUFFER
1208 DC A(DIAXFP) 5= DIAGNOSTIC XFP BUFFER
1209 *
1210 * ALPHANUMERIC CHARACTERS
1211 *
1212 TCHAR DC X'40' SPACE
1213 DC C'ABCDEFGHI' CENT SIGN
1214 DC X'4A'
1215 DC C'<(+)' CLOSING BRACE
1216 DC X'D0'
1217 DC C'JKLMNOPQR!\$*);-;' REV SLASH, TILDE
1218 DC X'E011'
1219 DC C'SUVWXYZ' VERTICAL LINE
1220 DC X'6A'
1221 DC C'>?@123456789:;#&'! '='
1222 DC X'CO' OPENING BRACE
1223 DC C'EC-/'
1224 DC X'794AA1E0' GRVE ACC, CENT,TILDE,REV SL
1225 DC C'<!\$-#&'
1226 DC X'40' SPACE
1227 DC C'ABCDEFGHI'
1228 DC X'4A' CENT SIGN
1229 DC C'<(+)' CLOSING BRACE
1230 DC X'D0'
1231 DC C'JKLMNOPQR!\$*);-;'

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
1465+*
1466+*****
1467+INTOK DC X'1706E' COPY STATUS ANY LEVEL INTO R3
1468+ SRL 13,R3 POSITION INDICATORS IN R3
1469+ MVA OPTN1,R4 SET UP BASE ADRS
1470+INTR1 TBTS (R4,IN) SET INTERRUPT RECEIVED
1471+ TBT (R4,CS) IS 'CS IN PROGRESS' ON
1472+ JON INTX2 * YES, BCH AROUND UPDATE
1473+ MVB R3,\$IOIN+1 SAVE INTERRUPTING CC CODE
1474+ MVW R7,\$ISB SAVE INTR STATUS AND DEV ADRS
1475+INTR2 EQU *
1476+* CPCL R5 CURRENT LEVEL COPIED BY DCP
1477+ SLL 4,R5 POSITION INTR LEVEL AND PUT
1478+ ABI 1,R5 * IN 'I' BIT
1479+ CW SINTL,R5 IS THIS THE CORRECT INTP LEVEL
1480+ JE INTR3 * YES, GO EXIT THIS LEVEL
1481+ TBTS (R4,\$LE) SET INTR LEVEL EPROP CONTROL BIT
1482+ TBTS (R4,ER) SET ERROR ON I/O COMMAND CNTL BIT
1483+INTR3 TBTP (R4,XI) WAS INTERRUPT EXPECTED
1484+ JON INTRX * YES, EXIT OFF THIS INTR LEVEL
1485+ TBTS (R4,HI) * NO, SET MYSTERY INTR CONTROL BIT
1486+ CBI 4,R5 ATTENTION INTERRUPT?
1487+ JE INTRX YES
1488+ TBTS (R4,NG) ERROR,UNEXPECTED INTERRUPT
1489+INTRX SVC EXIT EXIT THIS LEVEL VIA SUPR TO PGM
1491+*****03FEB76**
1492+*
1493+* THIS IS THE CONTINUATION OF EXECUTE I/O AFTER THE INTERRUPT
1494+* HAS BEEN SERVICED. THE EXERCISER FINDS AN INTERRUPT HAS BEEN
1495+* RECEIVED AND BRANCHES HERE TO CHECK FOR ANY ERROR CONDITIONS.
1496+*
1497+*
1498+XIOCK TBTR (R4,XE) WAS AN ERROR EXPECTED
1499+ BN (R6,2) * YES, EXIT THIS ROUTINE
1500+ TBTR (R4,CS) WAS AUTO CS IN PROGRESS
1501+ JOFF XIOCV * NO, CONTINUE CHECKING
1502+ TBT (R4,CE) IS CS IN AN ERR CONDITION
1503+ JOFF XIOCO * NO, BCH
1504+ B (R6,*) CS ERROR
1505+XIOCO TBTS (R4,CSA) TURN ON CS STATS AVAIL FLAG
1506+ BXS (R6,2) GO TO USER
1507+XIOCV TBT (R4,ER) WAS ERROR INTR CONTROL BIT ON
1508+ JOFF XIOCX * NO, EXIT THIS ROUTINE
1509+*
1510+ MVB \$IOIN+1,R5 GET LAST INTP CC CODE
1511+ CBI 2,R5 IS THIS CC=2
1512+ BNE (R6,*) * NO, BCH TO ERROR HANDLER
1513+XIOCO MVB \$ISB,R5 GET LAST ISB DATA BYTE AND IF CS
1514+ BN XIOCS-4 * AVAILABLE, GO AND GET IT
1515+ B (R6,*) ERROR
1516+XIOCX MVWZ OPTN3,R3 CLEAR OUT OPTION 3 CNTL BITS
1517+ BXS (R6,2) RETUPN TO USEP VIA PEG 6
1518+*
1519+* I/O PARAMETER LIST
1520+*
1521+IOBLK DC A (DEVADD) ADRS OF DEVICE ADRS
1522+ DC A (XIOER) ERROR ROUTINE ADRS
1523+IODCB DC A (*-*) DCB ADPS OR LEVEL & INTR
1524+IOMOD DC A (*-*) MODIFIER
1525+ DC A (*-*) ADRS OF LAST SVC CALL
1526+IORSP DC A (*-*) SECOND WORD OF LAST IDCB
1527+*
1528+* INTERRUPT CONTROL BLOCK FOR I/O COMMANDS
1529+*
1530+INTBL DC A (DEVADD) ADRS OF DEVICE ADRS
1531+ DC A (INTOK) INTERRUPT OR RETURN ADRS
1532+ DC A (INTERR) INTERRUPT ERROR ADRS
1533+ INTCC DC X'0003' INTERRUPT CODE EXPECTED
1535+***** **11MAY76**
1536+*
1537+* SUBROUTINE
1538+*
1539+* CONNECT INTERRUPT CONTROL BLOCK & PREPARE DEVICE
1540+*
1541+* PURPOSE
1542+*
1543+* TO CONNECT THE INTERRUPT CONTROL BLOCK TO THIS DEVICE AND
1544+* PREPARE ON THE DESIRED INTERRUPT LEVEL AND TO ALLOW THE DEVICE
1545+* TO INTERRUPT.
1546+*
1547+* CALLING SEQUENCE
1548+*
1549+* THIS SUBROUTINE HAS THE FOLLOWING ENTRIES:
1550+*
1551+* --> BAL \$CONC,P6 CLEAR DEV DEP STG AND CONNECT I/O BLK
1552+* --> BAL \$CONP,P6 PREPARE DEVICE ONLY, ALREADY CONNECT
1553+*
1554+* RETURN CONTROL
1555+*
1556+* OR BXS (R6,2) RETURN TO USER VIA REG 6 IF OKAY
1557+* OR B (R6,*) IF THE DEVICE COULD NOT BE CONNECTED
1558+*
1559+*****
1560+\$CONC MVB 6,R7 NUMBER OF BYTE TO CLEAR
1561+ MVB 0,R3 * AND THE DATA TO USE
1562+ MVA DEV1,R5 * ALONG WITH THE ADRS TO USE
1563+ FPN R3,(R5) *
1564+ MVWZ OPTN3,P3 CLEAR OLD CONTROLS FOR NEW ROUTINE
1565+ MVA INTBL,P7 SET P7 TO CONTROL BLOCK AND
1566+ SVC CIBC * CONNECT IT TO THIS DEVICE
1567+ BN (R6,*) EPROP RETURN TO USEP
1568+*
1569+\$CONP MVA SINTL,IODCB PUT IN LEVEL & INTR PARAMETER
1570+ MVA IOBLK,R7 SET P7 TO CONTROL BLOCK TO PREPARE
1571+ MVWI X'0708',\$IOIN INITIALIZE CONDITION CODE STORAGE
1572+ MVWZ \$ISB,R3 * AND CLEAR OLD ISB VALUE
1573+ MVW R6,\$STIO SET UP ADDRESS THAT STARTED LAST I/O
1574+ SVC PREP * AND CALL ON SUPR
1575+ BXS (R6,2) RETURN TO USER
1577+*****06APR76**
1578+*
1579+* SUBROUTINE
1580+*
1581+* DISCONNECT THE INTERRUPT CONTROL BLOCK AND LOG ERRORS

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
1582+*
1583+* PURPOSE
1584+*
1585+* DISCONNECT THE INTERRUPT CONTROL BLOCK TO THIS DEVICE AND
1586+* SET THE 'NO GOOD' CONTROL BIT THEN LOG THE DATA THAT HAS
1587+* BEEN FOUND TO HELP THE OPERATOR DEFINE THE ERROR CONDITION.
1588+*
1589+* CALLING SEQUENCE
1590+*
1591+* THIS SUBROUTINE HAS THE FOLLOWING ENTRIES:
1592+*
1593+* --> B \$ERR\$ SET 'NG' BIT AND CONVERT DATA TO LOG
1594+* --> B \$CONX RETURN TO MDI SUPERVISOR TO TEST STS
1595+*
1596+* RETURN CONTROL
1597+*
1598+* B TURTN* RETURN TO MDI
1599+* OR B (R6,*) IF THE DEVICE COULD NOT BE CONNECTED
1600+*
1601+*****
1602+SERR\$ MVI X'8000',TUSTATUS SET ON 'NO GOOD' STATUS BIT
1603+ MVA HEBLK,R7 SET ADRS OF CONTROL BLOCK
1604+ SVC HTOE CONVERT HEX TO EBC VIS DCP
1605+SPRNT MVB 3,R5
1606+ MVA TUVCRK,R3 SET UP BUFFER STORAGE
1607+ MVW R3,BUFPT
1608+ MVA LINE1,R1
1609+ MVB 4,P7
1610+ MVB 8,P6
1611+MVBUF MVFN (R3),(R1)
1612+ MVB 4,R7
1613+ MVB X'40',P2
1614+ MVB R2,(R4)
1615+ JCT MVBUF,R6
1616+ MVB 8,R6
1617+ AWI 44,R1
1618+ JCT MVBUF,R5
1619+ MVWI PIDMSG10,PID+2
1620+ MVA FAKETU,@DCADD1
1621+ MVA DC2PT,@DCADD2
1622+ OWI BIT0080,SUPSTAT
1623+ MVA STUID,R3 SET UP BUFFER STORAGE
1624+ BAL TUMSGWTR*,R7 GO TO MESSAGE WRITER
1625+*
1626+\$CONX EQU *
1627+ MVB DEVADD,R7 GET DEVICE ADDRESS FROM MDI
1628+ SVC RIBC RELEASE INTERRUPT CONTROL BLOCK
1629+ B TURTN* RETURN TO MDI SUPERVISOR
1630+*
1631+BEGIN DC A (0007) NUMBER OF LINES TO PRINT
1632+ DC A (0008) LINE LENGTH = 8 CHAR
1633+ DC C'** ABORT'
1634+ DC A (0040) LINE LENGTH = 40 CHAR
1635+ DC C'TUID IOIN ISB INST DEV1 DEV2 DEV3 DEV4
1636+ DC A (0040) LINE LENGTH = 40 CHAR
1637+ DC C' LINE1
1638+ DC A (0040) LINE LENGTH = 40 CHAR
1639+ DC C'CENTL DCB2 DCB3 DCB4 LINE LENGTH = 40 CHAR
1640+ DC A (0040) LINE LENGTH = 40 CHAR
1641+LINE2 DC C'
1642+ DC A (0040) LINE LENGTH = 40 CHAR
1643+ DC C'RSID CS-2 CS-3 CS-4 CS-5 CS-6 CS-7 CS-8
1644+ DC A (0040) LINE LENGTH = 40 CHAR
1645+LINE3 DC C'
1646+*
1647+BUFPT DC A (*-*)
1648+DC2PT DC A (BEGIN)
1649+FIXTU DC X'0101'
1650+FAKETU DC X'0101'
1651+PIDMSG10 EQU X'F1F0'
1652+BIT0080 EQU X'0080'
1653+*
1654+* DATA CONTROL BLOCK FOR CONVERTING HEX TO EBCDIC
1655+*
1656+HEBLK DC A (48) NUMBER OF BYTES TO CONVERT
1657+ DC A (\$TUID) FROM ADRS
1658+ DC A (TUVCRK) AND THE TO ADRS
1659+ DCB CS,2000,,,,,10,CSBUF
1660+CSDCB EQU * THIS LABEL DEFINES ENTIRE DCB
1661+CSCTL DC X'2000' CONTROL WORD
1662+CSDC2 DC X'0000' DCB 2
1663+CSDC3 DC X'0000' DCB 3
1664+CSDC4 DC X'0000' DCB 4
1665+CSDC5 DC X'0000' DCB 5
1666+CSCHN DC A (0000) CHAIN ADDRESS OF NEXT DCB
1667+CSBCT DC X'0010' BYTE COUNT
1668+CSADR DC A (CSBUF) BUFFER ADDRESS
1669+*
1670+
1671+WRBUF BUFBR 270,16
1672+ EQU * WRITE BUFFER
1673+TUDCB EQU **270
1674+DIAGBF EQU *
1675+RDBUF EQU * READ AND DIAGNOSTIC BUFFER
1676+ EQU **16
1677+ DS F'0'
1678+ END

CROSS-REFERENCE LISTING

COPYRIGHT IBM CORP 1976

DECLARED	NAME	ATTRIBUTES AND REFERENCES
0	.R0.	ABSOLUTE. HEX VALUE(00000000) 1128 1129 1151 1152 1175
0	.R1.	ABSOLUTE. HEX VALUE(00000001) 1124 1125 1126 1128 1129 1130 1148 1150 1150 1150 1150 1151 1155 1159 1166 1185 1186 1187 1187 1187 1190 1608 1611 1614 1617
0	.R2.	ABSOLUTE. HEX VALUE(00000002) 1126 1137 1168 1182 1183 1186 1613 1614
0	.R3.	ABSOLUTE. HEX VALUE(00000003) 1134 1136 1136 1136 1136 1137 1140 1141 1142 1143 1146 1158 1159 1177 1187 1190 1191 1192 1317 1327 1330 1331 1334 1336 1392 1393 1428 1434 1438 1468 1473 1486 1516 1561 1563 1564 1572 1606 1607 1611 1623
0	.R4.	ABSOLUTE. HEX VALUE(00000004) 1120 1139 1145 1153 1188 1320 1321 1324 1338 1339 1341 1342 1345 1351 1357 1429 1430 1432 1436 1440 1469 1470 1471 1481 1482 1483 1485 1488 1498 1500 1502 1505 1507
0	.R5.	ABSOLUTE. HEX VALUE(00000005) 1328 1330 1332 1334 1350 1355 1477 1478 1479 1510 1511 1513 1562 1563 1605 1618
0	.R6.	ABSOLUTE. HEX VALUE(00000006) 1121 1162 1179 1326 1346 1358 1394 1499 1504 1506 1512 1515 1517 1567 1573 1575 1610 1615 1616
0	.R7.	ABSOLUTE. HEX VALUE(00000007) 964 1118 1156 1157 1329 1333 1340 1433 1474 1560 1565 1570 1603 1609 1612 1624 1627
1560	\$CONC	ADDRESS. HEX LOCATION(00002F34) IN CSECT(I6404) LENGTH(2)
1626	\$CONX	ADDRESS. HEX LOCATION(00002FB8) IN CSECT(I6404) LENGTH(1)
1602	\$ERR\$	ADDRESS. HEX LOCATION(00002F68) IN CSECT(I6404) LENGTH(6)
953	\$INTL	ADDRESS. HEX LOCATION(00002C48) IN CSECT(I6404) LENGTH(2)
923	\$IOIN	ADDRESS. HEX LOCATION(00002C14) IN CSECT(I6404) LENGTH(2)
924	\$ISB	ADDRESS. HEX LOCATION(00002C16) IN CSECT(I6404) LENGTH(2)
908	\$LE	ABSOLUTE. HEX VALUE(00000026) 1341 1481
922	\$TUID	ADDRESS. HEX LOCATION(00002C12) IN CSECT(I6404) LENGTH(2)
105	@DCADD1	ADDRESS. HEX LOCATION(000019B8) IN CSECT(I6404) LENGTH(1)
106	@DCADD2	ADDRESS. HEX LOCATION(000019BA) IN CSECT(I6404) LENGTH(1)
42	@FIXT	ABSOLUTE. HEX VALUE(00000101) 480 495 513 543 573 606 636 669 699 717
44	@GOTO	ABSOLUTE. HEX VALUE(00000200) 519 525 549 555 579 585 612 618 642 648 675 681 723
41	@QUES	ABSOLUTE. HEX VALUE(00000100) 483 486 489 492 498 516 546 576 591 609 639 654 672 702
43	@STOP	ABSOLUTE. HEX VALUE(00000102) 720
48	@TUXX	ABSOLUTE. HEX VALUE(00000500) 468 501 531 561 594 624 657 687 705
1631	BEGIN	ADDRESS. HEX LOCATION(00002FC2) IN CSECT(I6404) LENGTH(2)
1652	BIT0080	ABSOLUTE. HEX VALUE(00000080) 1622
1647	BUFPT	ADDRESS. HEX LOCATION(000030CA) IN CSECT(I6404) LENGTH(2)
912	CE	ABSOLUTE. HEX VALUE(0000002A) 1320 1432 1502
887	CH	ABSOLUTE. HEX VALUE(0000001E) 1145 1153
992	CICB	ABSOLUTE. HEX VALUE(00000014) 1566
888	CMF	ABSOLUTE. HEX VALUE(0000001F) 1139 1188
910	CS	ABSOLUTE. HEX VALUE(00000028) 1321 1324 1430 1471 1500
911	CSA	ABSOLUTE. HEX VALUE(00000029) 1505
1667	CSBCT	ADDRESS. HEX LOCATION(000030E4) IN CSECT(I6404) LENGTH(2)
941	CSBUF	ADDRESS. HEX LOCATION(00002C32) IN CSECT(I6404) LENGTH(1)
1660	CSDCB	ADDRESS. HEX LOCATION(000030D8) IN CSECT(I6404) LENGTH(1)
949	CSTL8	ADDRESS. HEX LOCATION(00002C40) IN CSECT(I6404) LENGTH(2)
931	DCBUF	ADDRESS. HEX LOCATION(00002C22) IN CSECT(I6404) LENGTH(1)
1648	DC2PT	ADDRESS. HEX LOCATION(000030CC) IN CSECT(I6404) LENGTH(2)
108	DEVADD	ADDRESS. HEX LOCATION(000019D0) IN CSECT(I6404) LENGTH(1)
926	DEV1	ADDRESS. HEX LOCATION(00002C1A) IN CSECT(I6404) LENGTH(2)
1674	DIAGBF	ADDRESS. HEX LOCATION(000031F6) IN CSECT(I6404) LENGTH(1)
1241	DIAXFR	ADDRESS. HEX LOCATION(00002DF6) IN CSECT(I6404) LENGTH(2)
70	DUMMY	ABSOLUTE. HEX VALUE(00000000) 459 728 743
729	ENTPT	ADDRESS. HEX LOCATION(00002894) IN CSECT(I6404) LENGTH(1)
50	EQ	ABSOLUTE. HEX VALUE(00000000) 471 504 534 564 597 627 660 690 708
903	ER	ABSOLUTE. HEX VALUE(00000021) 1338 1357 1440 1482 1507
978	EXIT	ABSOLUTE. HEX VALUE(00000006) 1489
1650	FAKETU	ADDRESS. HEX LOCATION(000030D0) IN CSECT(I6404) LENGTH(2)

CROSS-REFERENCE LISTING

COPYRIGHT IBM CORP 1976

DECLARED	NAME	ATTRIBUTES AND REFERENCES
751	F00020	1620 ADDRESS. HEX LOCATION(0000289E) IN CSECT(I6404) LENGTH(1)
755	F00052	481 ADDRESS. HEX LOCATION(000028C4) IN CSECT(I6404) LENGTH(1)
763	F00068	496 ADDRESS. HEX LOCATION(00002942) IN CSECT(I6404) LENGTH(1)
769	F00075	514 ADDRESS. HEX LOCATION(0000297C) IN CSECT(I6404) LENGTH(1)
773	F00077	520 ADDRESS. HEX LOCATION(0000298E) IN CSECT(I6404) LENGTH(1)
777	F00086	526 ADDRESS. HEX LOCATION(000029A2) IN CSECT(I6404) LENGTH(1)
783	F00093	544 ADDRESS. HEX LOCATION(000029DC) IN CSECT(I6404) LENGTH(1)
787	F00095	550 ADDRESS. HEX LOCATION(000029EE) IN CSECT(I6404) LENGTH(1)
791	F00103	556 ADDRESS. HEX LOCATION(00002A02) IN CSECT(I6404) LENGTH(1)
797	F00110	574 ADDRESS. HEX LOCATION(00002A3C) IN CSECT(I6404) LENGTH(1)
801	F00112	580 ADDRESS. HEX LOCATION(00002A4E) IN CSECT(I6404) LENGTH(1)
805	F00124	586 ADDRESS. HEX LOCATION(00002A62) IN CSECT(I6404) LENGTH(1)
811	F00131	607 ADDRESS. HEX LOCATION(00002A9C) IN CSECT(I6404) LENGTH(1)
815	F00133	613 ADDRESS. HEX LOCATION(00002AAE) IN CSECT(I6404) LENGTH(1)
819	F00141	619 ADDRESS. HEX LOCATION(00002AC2) IN CSECT(I6404) LENGTH(1)
825	F00148	637 ADDRESS. HEX LOCATION(00002AFC) IN CSECT(I6404) LENGTH(1)
829	F00150	643 ADDRESS. HEX LOCATION(00002B0E) IN CSECT(I6404) LENGTH(1)
833	F00163	649 ADDRESS. HEX LOCATION(00002B22) IN CSECT(I6404) LENGTH(1)
839	F00170	670 ADDRESS. HEX LOCATION(00002B5C) IN CSECT(I6404) LENGTH(1)
843	F00172	676 ADDRESS. HEX LOCATION(00002B6E) IN CSECT(I6404) LENGTH(1)
847	F00181	682 ADDRESS. HEX LOCATION(00002B82) IN CSECT(I6404) LENGTH(1)
853	F00195	700 ADDRESS. HEX LOCATION(00002BBC) IN CSECT(I6404) LENGTH(1)
857	F00198	718 ADDRESS. HEX LOCATION(00002BE2) IN CSECT(I6404) LENGTH(1)
861	F00200	721 ADDRESS. HEX LOCATION(00002BF8) IN CSECT(I6404) LENGTH(1)
1656	HEBLK	724 ADDRESS. HEX LOCATION(000030D2) IN CSECT(I6404) LENGTH(2)
998	H7OE	1603 ABSOLUTE. HEX VALUE(0000001A)
974	IDLE	1604 ABSOLUTE. HEX VALUE(00000002)
905	IN	1171 1353 ABSOLUTE. HEX VALUE(00000023)
1530	INTBL	1339 1351 1470 ADDRESS. HEX LOCATION(00002F2C) IN CSECT(I6404) LENGTH(2)
1427	INTER	1565 ADDRESS. HEX LOCATION(00002E94) IN CSECT(I6404) LENGTH(2)
1436	INTES	1532 ADDRESS. HEX LOCATION(00002EAC) IN CSECT(I6404) LENGTH(2)
1440	INTET	1431 ADDRESS. HEX LOCATION(00002EB4) IN CSECT(I6404) LENGTH(2)
1467	INTOK	1437 ADDRESS. HEX LOCATION(00002EB8) IN CSECT(I6404) LENGTH(2)
66	INTRNL	1531 ABSOLUTE. HEX VALUE(00000000) 523 529 553 559 583 589 616 622 646 652 679 685 727
1489	INTRX	ADDRESS. HEX LOCATION(00002EE8) IN CSECT(I6404) LENGTH(2)
1470	INTR1	1484 ADDRESS. HEX LOCATION(00002EC0) IN CSECT(I6404) LENGTH(2)
1475	INTR2	1435 ADDRESS. HEX LOCATION(00002ECE) IN CSECT(I6404) LENGTH(1)
1483	INTR3	1472 ADDRESS. HEX LOCATION(00002FDC) IN CSECT(I6404) LENGTH(2)
1521	IOBLK	1480 ADDRESS. HEX LOCATION(00002F20) IN CSECT(I6404) LENGTH(2)
1523	IODCB	1340 1570 ADDRESS. HEX LOCATION(00002F24) IN CSECT(I6404) LENGTH(2)
1524	IOMOD	1160 1322 1328 1569 ADDRESS. HEX LOCATION(00002F26) IN CSECT(I6404) LENGTH(2)
40	I6404	1141 1317 1323 CSECT. START(00002500) LENGTH(3336) ESDID(0)
1637	LINE1	40 ADDRESS. HEX LOCATION(00002FFA) IN CSECT(I6404) LENGTH(40)
925	LSTIO	1608 ADDRESS. HEX LOCATION(00002C18) IN CSECT(I6404) LENGTH(2)
902	MI	1326 1573 ABSOLUTE. HEX VALUE(00000020)
1611	MVBUF	1485 ADDRESS. HEX LOCATION(00002F86) IN CSECT(I6404) LENGTH(2)
914	NG	1615 1618 ABSOLUTE. HEX VALUE(0000002C)
909	NI	1488 ABSOLUTE. HEX VALUE(00000027)
463	N00001	1345 ADDRESS. HEX LOCATION(000025C0) IN CSECT(I6404) LENGTH(2)
480	N00002	318 ADDRESS. HEX LOCATION(000025EE) IN CSECT(I6404) LENGTH(2)
483	N00003	321 ADDRESS. HEX LOCATION(000025F2) IN CSECT(I6404) LENGTH(2)
486	N00004	324 469 ADDRESS. HEX LOCATION(000025F6) IN CSECT(I6404) LENGTH(2)
489	N00005	327 ADDRESS. HEX LOCATION(000025FA) IN CSECT(I6404) LENGTH(2)
492	N00006	330 ADDRESS. HEX LOCATION(000025FE) IN CSECT(I6404) LENGTH(2)
495	N00007	333 ADDRESS. HEX LOCATION(00002602) IN CSECT(I6404) LENGTH(2)

CROSS-REFERENCE LISTING

COPYRIGHT IBM CORP 1976

DECLARED	NAME	ATTRIBUTES AND REFERENCES
498	N00008	336 ADDRESS. HEX LOCATION(00002606) IN CSECT(I6404) LENGTH(2)
501	N00009	339 493 ADDRESS. HEX LOCATION(0000260A) IN CSECT(I6404) LENGTH(2)
513	N00010	342 ADDRESS. HEX LOCATION(00002640) IN CSECT(I6404) LENGTH(2)
516	N00011	345 ADDRESS. HEX LOCATION(00002644) IN CSECT(I6404) LENGTH(2)
519	N00012	348 502 ADDRESS. HEX LOCATION(00002648) IN CSECT(I6404) LENGTH(2)
525	N00013	351 ADDRESS. HEX LOCATION(00002654) IN CSECT(I6404) LENGTH(2)
531	N00014	354 517 ADDRESS. HEX LOCATION(00002660) IN CSECT(I6404) LENGTH(2)
543	N00015	357 499 ADDRESS. HEX LOCATION(00002696) IN CSECT(I6404) LENGTH(2)
546	N00016	360 ADDRESS. HEX LOCATION(0000269A) IN CSECT(I6404) LENGTH(2)
549	N00017	363 532 ADDRESS. HEX LOCATION(0000269E) IN CSECT(I6404) LENGTH(2)
555	N00018	366 ADDRESS. HEX LOCATION(000026AA) IN CSECT(I6404) LENGTH(2)
561	N00019	369 547 ADDRESS. HEX LOCATION(000026B6) IN CSECT(I6404) LENGTH(2)
573	N00020	372 490 ADDRESS. HEX LOCATION(000026E8) IN CSECT(I6404) LENGTH(2)
576	N00021	375 ADDRESS. HEX LOCATION(000026EC) IN CSECT(I6404) LENGTH(2)
579	N00022	378 562 ADDRESS. HEX LOCATION(000026F0) IN CSECT(I6404) LENGTH(2)
585	N00023	381 ADDRESS. HEX LOCATION(000026FC) IN CSECT(I6404) LENGTH(2)
591	N00024	384 577 ADDRESS. HEX LOCATION(00002708) IN CSECT(I6404) LENGTH(2)
594	N00025	387 487 ADDRESS. HEX LOCATION(0000270C) IN CSECT(I6404) LENGTH(2)
606	N00026	390 ADDRESS. HEX LOCATION(00002742) IN CSECT(I6404) LENGTH(2)
609	N00027	393 ADDRESS. HEX LOCATION(00002746) IN CSECT(I6404) LENGTH(2)
612	N00028	396 595 ADDRESS. HEX LOCATION(0000274A) IN CSECT(I6404) LENGTH(2)
618	N00029	399 ADDRESS. HEX LOCATION(00002756) IN CSECT(I6404) LENGTH(2)
624	N00030	402 610 ADDRESS. HEX LOCATION(00002762) IN CSECT(I6404) LENGTH(2)
636	N00031	405 592 ADDRESS. HEX LOCATION(00002798) IN CSECT(I6404) LENGTH(2)
639	N00032	408 ADDRESS. HEX LOCATION(0000279C) IN CSECT(I6404) LENGTH(2)
642	N00033	411 625 ADDRESS. HEX LOCATION(000027A0) IN CSECT(I6404) LENGTH(2)
648	N00034	414 ADDRESS. HEX LOCATION(000027AC) IN CSECT(I6404) LENGTH(2)
654	N00035	417 640 ADDRESS. HEX LOCATION(000027B8) IN CSECT(I6404) LENGTH(2)
657	N00036	420 484 ADDRESS. HEX LOCATION(000027BC) IN CSECT(I6404) LENGTH(2)
669	N00037	423 ADDRESS. HEX LOCATION(000027F2) IN CSECT(I6404) LENGTH(2)
672	N00038	426 ADDRESS. HEX LOCATION(000027F6) IN CSECT(I6404) LENGTH(2)
675	N00039	429 658 ADDRESS. HEX LOCATION(000027FA) IN CSECT(I6404) LENGTH(2)
681	N00040	432 ADDRESS. HEX LOCATION(00002806) IN CSECT(I6404) LENGTH(2)
687	N00041	435 673 ADDRESS. HEX LOCATION(00002812) IN CSECT(I6404) LENGTH(2)
699	N00042	438 655 ADDRESS. HEX LOCATION(00002848) IN CSECT(I6404) LENGTH(2)
702	N00043	441 ADDRESS. HEX LOCATION(0000284C) IN CSECT(I6404) LENGTH(2)
705	N00044	444 688 ADDRESS. HEX LOCATION(00002850) IN CSECT(I6404) LENGTH(2)
717	N00045	447 742 ADDRESS. HEX LOCATION(0000287E) IN CSECT(I6404) LENGTH(2)
720	N00046	450 ADDRESS. HEX LOCATION(00002882) IN CSECT(I6404) LENGTH(2)
723	N00047	453 706 ADDRESS. HEX LOCATION(00002886) IN CSECT(I6404) LENGTH(2)
867	OPTN1	456 703 ADDRESS. HEX LOCATION(00002C0C) IN CSECT(I6404) LENGTH(2)
869	OPTN2	1120 1429 1469 ADDRESS. HEX LOCATION(00002C0E) IN CSECT(I6404) LENGTH(2)
890	OPTN3	1124 ADDRESS. HEX LOCATION(00002C10) IN CSECT(I6404) LENGTH(2)
75	OPWD1	1516 1564 ADDRESS. HEX LOCATION(0000180E) IN CSECT(I6404) LENGTH(1)
104	PARMARA	1164 ADDRESS. HEX LOCATION(0000196E) IN CSECT(I6404) LENGTH(1)
72	PID	478 511 541 571 604 634 667 697 715 ADDRESS. HEX LOCATION(00001800) IN CSECT(I6404) LENGTH(1)
		74 75 76 77 78 79 80 81 82
		83 84 85 86 87 88 89 90 91
		92 93 94 95 96 97 98 99 100
		101 102 103 104 105 106 107 108 109
1651	PIDMSG10	ABSOLUTE. HEX VALUE(0000F1F0)
984	PREP	1619 ABSOLUTE. HEX VALUE(0000000C)
1675	RDBUF	1574 ADDRESS. HEX LOCATION(000031F6) IN CSECT(I6404) LENGTH(1)
991	RICB	1207 ABSOLUTE. HEX VALUE(00000013)
982	START	1628 ABSOLUTE. HEX VALUE(0000000A)
107	STPSTAT	1343 ADDRESS. HEX LOCATION(000019C4) IN CSECT(I6404) LENGTH(1)
1212	TCHAR	1622 ADDRESS. HEX LOCATION(00002D56) IN CSECT(I6404) LENGTH(1)
		1204

CROSS-REFERENCE LISTING

COPYRIGHT IBM CORP 1976

DECLARED	NAME	ATTRIBUTES AND REFERENCES
95	TUMSGWTF	ADDRESS. HEX LOCATION(000018BA) IN CSECT(I6404) LENGTH(1)
79	TUPARM1	1624 ADDRESS. HEX LOCATION(0000189A) IN CSECT(I6404) LENGTH(1)
88	TUPAFM10	1126 1128 1129 1160 ADDRESS. HEX LOCATION(000018AC) IN CSECT(I6404) LENGTH(1)
84	TUPARM6	1148 ADDRESS. HEX LOCATION(000018A4) IN CSECT(I6404) LENGTH(1)
85	TUPARM7	1133 ADDRESS. HEX LOCATION(000018A6) IN CSECT(I6404) LENGTH(1)
86	TUPARM8	1156 ADDRESS. HEX LOCATION(000018A8) IN CSECT(I6404) LENGTH(1)
87	TUPARM9	1134 1146 1158 1174 ADDRESS. HEX LOCATION(000018AA) IN CSECT(I6404) LENGTH(1)
101	TURESUL	1185 ADDRESS. HEX LOCATION(000018C8) IN CSECT(I6404) LENGTH(1)
954	TURTN	1192 1194 ADDRESS. HEX LOCATION(00002C4A) IN CSECT(I6404) LENGTH(2)
77	TUSTATUS	1118 1629 ADDRESS. HEX LOCATION(00001818) IN CSECT(I6404) LENGTH(1)
78	TUWORK	1602 ADDRESS. HEX LOCATION(0000181A) IN CSECT(I6404) LENGTH(1)
1118	T6404	1606 1658 ADDRESS. HEX LOCATION(00002C5A) IN CSECT(I6404) LENGTH(4)
1126	T6404B	470 503 533 563 596 626 659 689 707 ADDRESS. HEX LOCATION(00002C74) IN CSECT(I6404) LENGTH(4)
1130	T6404C	1131 ADDRESS. HEX LOCATION(00002C82) IN CSECT(I6404) LENGTH(2)
1140	T6404D	1127 ADDRESS. HEX LOCATION(00002C9A) IN CSECT(I6404) LENGTH(4)
1141	T6404E	1138 ADDRESS. HEX LOCATION(00002C9E) IN CSECT(I6404) LENGTH(4)
1146	T6404G	1135 ADDRESS. HEX LOCATION(00002CAA) IN CSECT(I6404) LENGTH(6)
1160	T6404I	1144 ADDRESS. HEX LOCATION(00002CD2) IN CSECT(I6404) LENGTH(6)
1170	T6404J	1149 1154 1175 ADDRESS. HEX LOCATION(00002CF2) IN CSECT(I6404) LENGTH(6)
1171	T6404K	1167 ADDRESS. HEX LOCATION(00002CF8) IN CSECT(I6404) LENGTH(2)
1174	T6404L	1173 ADDRESS. HEX LOCATION(00002D02) IN CSECT(I6404) LENGTH(6)
1182	T6404M	1165 1169 ADDRESS. HEX LOCATION(00002D16) IN CSECT(I6404) LENGTH(2)
1192	T6404S	1178 ADDRESS. HEX LOCATION(00002D32) IN CSECT(I6404) LENGTH(4)
1203	T6404V	1189 ADDRESS. HEX LOCATION(00002D4A) IN CSECT(I6404) LENGTH(2)
1194	T6404X	1146 1186 ADDRESS. HEX LOCATION(00002D38) IN CSECT(I6404) LENGTH(6)
1195	T6404Y	1163 1184 ADDRESS. HEX LOCATION(00002D3E) IN CSECT(I6404) LENGTH(6)
1199	T6404Z	1193 ADDRESS. HEX LOCATION(00002D48) IN CSECT(I6404) LENGTH(2)
1671	WRBUF	1170 1172 ADDRESS. HEX LOCATION(000030E8) IN CSECT(I6404) LENGTH(1)
906	XE	1203 ABSOLUTE. HEX VALUE(00000024)
904	XI	1436 1498 ABSOLUTE. HEX VALUE(00000022)
1498	XIOCK	1342 1483 ADDRESS. HEX LOCATION(00002EEA) IN CSECT(I6404) LENGTH(2)
1505	XIOCO	1352 ADDRESS. HEX LOCATION(00002EFC) IN CSECT(I6404) LENGTH(2)
1322	XIOCS	1503 ADDRESS. HEX LOCATION(00002E2C) IN CSECT(I6404) LENGTH(6)
1507	XIOCV	1179 1514 ADDRESS. HEX LOCATION(00002F00) IN CSECT(I6404) LENGTH(2)
1516	XIOCX	1501 ADDRESS. HEX LOCATION(00002F1A) IN CSECT(I6404) LENGTH(4)
1391	XIOER	1508 ADDRESS. HEX LOCATION(00002E88) IN CSECT(I6404) LENGTH(2)
1326	XIO1	1522 ADDRESS. HEX LOCATION(00002E3C) IN CSECT(I6404) LENGTH(4)
1339	XIO2	1162 1318 ADDRESS. HEX LOCATION(00002E62) IN CSECT(I6404) LENGTH(2)
1351	XIO8	1325 ADDRESS. HEX LOCATION(00002E76) IN CSECT(I6404) LENGTH(2)
		1356