

OPTIONS NODECK,LIST,XREF,NOREL,OBJ(P)

THE LIST OF OPTIONS USED DURING THIS ASSEMBLY IS-- NODECK,LIST,XREF,NOREL,OBJ

EXTERNAL SYMBOL LIST

SYMBOL TYPE

VER 15, MOD 00 31/05/22 PAGE 1

#DREAD MODULE

ERR LOC OBJECT CODE

ADDR STMT SOURCE STATEMENT

VER 15, MOD 00 31/05/22 PAGE 2

0000

| | | | |
|-------|--------|-------|-----------|
| 1 | #DREAD | START | 0 |
| 2 | | PRINT | ON,NODATA |
| 3 | * | @SYS | EXP-N |
| 214+ | | PRINT | ON |
| 215 | * | @HDW | EXP-N |
| 400+ | | PRINT | ON |
| 401 | * | @FXD | EXP-N |
| 806+ | | PRINT | ON |
| 807 | * | @CAN | EXP-N |
| 910+ | | PRINT | ON |
| 911 | * | @CY0 | EXP-N |
| 984+ | | PRINT | ON |
| 985 | * | @SPF | EXP-N |
| 1448+ | | PRINT | ON |
| 1449 | * | @HLT | EXP-N |
| 1504+ | | PRINT | ON |

#DREAD - 3.7B CARD READER ROUTINE

| ERR LOC | OBJECT CODE | ADDR | STMT | SOURCE STATEMENT | VER 15, MOD 00 | 31/05/22 | PAGE | 3 |
|---------|-------------|------|------|---|----------------|----------|------|---|
| | | 1506 | | ***** | | | | * |
| | | 1507 | * | 5703-XM1 COPYRIGHT IBM CORP. 1970 | | | | * |
| | | 1508 | * | REFER TO INSTRUCTIONS ON COPYRIGHT NOTICE, 120-2083 | | | | * |
| | | 1509 | * | | | | | * |
| | | 1510 | | ***** | | | | * |
| | | 1511 | | *STATUS | | | | * |
| | | 1512 | * | VERSION 1 MODIFICATION 0 | | | | * |
| | | 1513 | * | | | | | * |
| | | 1514 | | *FUNCTION | | | | * |
| | | 1515 | * | DREADN PROVIDES TWO FUNCTIONS: | | | | * |
| | | 1516 | * | * INITIATE THE READING OF A CARD-THIS REPLACES THE KEYBOARD CALL | | | | * |
| | | 1517 | * | SECTION. IF THE CARD READER IS NOT BUSY THE READING OF A CARD | | | | * |
| | | 1518 | * | IS STARTED AND THE ROUTINE IS EXITED. | | | | * |
| | | 1519 | * | * CHECK FOR READER BEING BUSY-IF THE CARD READER IS BUSY, CONTROL | | | | * |
| | | 1520 | * | IS RETURNED TO THE CALLING PROGRAM. IF NOT BUSY, BUT AN ERROR | | | | * |
| | | 1521 | * | EXISTS, THE FUNCTION WILL BE RESTARTED AND THE ROUTINE EXITED. | | | | * |
| | | 1522 | * | WHEN THE CARD HAS BEEN SUCCESSFULLY READ, \$KYBSY WILL BE SET TO | | | | * |
| | | 1523 | * | ZERO INDICATING THE COMPLETION OF THE CARD INPUT. | | | | * |
| | | 1524 | * | | | | | * |
| | | 1525 | | *ENTRY POINTS | | | | * |
| | | 1526 | * | THIS ROUTINE HAS TWO ENTRY POINTS: | | | | * |
| | | 1527 | * | DREADN - INITIATE THE READING OF A CARD. | | | | * |
| | | 1528 | * | AND | | | | * |
| | | 1529 | * | CRDBSY - TEST COMPLETION OF THE CARD READ FUNCTION. | | | | * |
| | | 1530 | * | | | | | * |
| | | 1531 | | *INPUT | | | | * |
| | | 1532 | * | N/A | | | | * |
| | | 1533 | * | | | | | * |
| | | 1534 | | *OUTPUT | | | | * |
| | | 1535 | * | THE DATA READ FROM THE CARD IS PLACED IN THE INPUT LINE BUFFER. | | | | * |
| | | 1536 | * | | | | | * |
| | | 1537 | | *EXTERNAL REFERENCES | | | | * |
| | | 1538 | * | \$HISTE - ADDRESS OF HISTORY LOG ENTRY LOGGED BY SERLOG. | | | | * |
| | | 1539 | * | \$ERPND - INDICATOR OF ERROR PENDING. | | | | * |
| | | 1540 | * | \$BLOAD - ENTRY TO LOAD AND EXECUTE THE COMMAND ANALYZER. | | | | * |
| | | 1541 | * | | | | | * |
| | | 1542 | | *EXITS, NORMAL | | | | * |
| | | 1543 | * | THE EXIT FROM BOTH DREADN AND CRDBSY WILL BE TO THE CALLING | | | | * |
| | | 1544 | * | PROGRAM. | | | | * |
| | | 1545 | * | | | | | * |
| | | 1546 | | *EXITS, ERROR | | | | * |
| | | 1547 | * | SEE ERROR PROCEDURES DEFINED UNDER NOTES. | | | | * |
| | | 1548 | * | | | | | * |
| | | 1549 | | *TABLES/WORK AREAS | | | | * |
| | | 1550 | * | ONE HISTORY LOG WILL BE MAINTAINED IN CORE. OF THE 8-BYTE ENTRY | | | | * |
| | | 1551 | * | ALL BUT THE TWO SENSE BYTES WILL REMAIN UNCHANGED. | | | | * |
| | | 1552 | * | | | | | * |
| | | 1553 | | *ATTRIBUTES | | | | * |
| | | 1554 | * | DREADN IS RELOCATABLE AND REUSABLE. | | | | * |
| | | 1555 | * | | | | | * |
| | | 1556 | | *CHARACTER CODE DEPENDENCY | | | | * |
| | | 1557 | * | THE OPERATION OF THIS MODULE DOES NOT DEPEND UPON A PARTICULAR | | | | * |
| | | 1558 | * | INTERNAL REPRESENTATION OF THE EXTERNAL CHARACTER SET. | | | | * |
| | | 1559 | * | | | | | * |
| | | 1560 | | *NOTES | | | | * |
| | | 1561 | * | ERROR PROCEDURES | | | | * |

#DREAD - 3.7B CARD READER ROUTINE

| ERR LOC | OBJECT CODE | ADDR | STMT | SOURCE | STATEMENT | VER | MOD | DATE | PAGE | |
|---------|-------------|------|------|--------|---|-----|-----|------|------|---|
| | | 1562 | * | | UPON ERROR A HALT IS GENERATED EITHER BY THE SOFTWARE OR THE | | | | | * |
| | | 1563 | * | | HARDWARE TO ALLOW THE OPERATOR TO CORRECT THE PROBLEM. IF A | | | | | * |
| | | 1564 | * | | TRANSPORT OR HOPPER JAM IS THE ERROR, THE CARD WHICH JAMMED | | | | | * |
| | | 1565 | * | | SHOULD BE READ BACK THROUGH THE READER. WHEN THE CARD READER | | | | | * |
| | | 1566 | * | | IS READIED, THE CARD WILL BE RE-READ AUTOMATICALLY. IF A | | | | | * |
| | | 1567 | * | | HARDWARE COMPARE ERROR IS FOUND, THE LAST CARD READ WILL | | | | | * |
| | | 1568 | * | | HAVE TO BE PLACED BACK INTO THE INPUT HOPPER. THE OPERATOR | | | | | * |
| | | 1569 | * | | WILL THEN PUSH THE CONSOLE START BUTTON TO START THE RE-READ. | | | | | * |
| | | 1570 | * | | IF THE OUTPUT HOPPER IS FULL OR THE INPUT HOPPER EMPTY, THE | | | | | * |
| | | 1571 | * | | OPERATOR MUST CORRECT THE PROBLEM AND THE OPERATION WILL RE- | | | | | * |
| | | 1572 | * | | START AUTOMATICALLY. | | | | | * |
| | | 1573 | * | | REPEATED ERRORS ON THE SAME CARD WILL CAUSE A SOFTWARE GENER- | | | | | * |
| | | 1574 | * | | ATED HARD. HALT. TRANSPORT JAMS AND COMPARE ERRORS WILL BE | | | | | * |
| | | 1575 | * | | LOGGED ON THE FIXED DISK VIA SERLOG. | | | | | * |
| | | 1576 | * | | | | | | | * |
| | | 1577 | * | | REGISTER USAGE | | | | | * |
| | | 1578 | * | | THE BASE REGISTER IS SAVED UPON ENTRY TO AND RESTORED UPON | | | | | * |
| | | 1579 | * | | EXIT FROM DREADN OR CRDBSY. | | | | | * |
| | | 1580 | * | | | | | | | * |
| | | 1581 | * | | SAVED/RESTORED AREAS | | | | | * |
| | | 1582 | * | | NONE | | | | | * |
| | | 1583 | * | | | | | | | * |
| | | 1584 | * | | MODIFICATION CONSIDERATIONS | | | | | * |
| | | 1585 | * | | A POSSIBILITY EXISTS THAT THE ERROR PROCEDURES MAY HAVE TO BE | | | | | * |
| | | 1586 | * | | CHANGED. | | | | | * |
| | | 1587 | * | | | | | | | * |
| | | 1588 | * | | REQUIRED MODULES | | | | | * |
| | | 1589 | * | | @SYSEQ - COMMON SYSTEM EQUATES. | | | | | * |
| | | 1590 | * | | @HDWEQ - HARDWARE EQUATES. | | | | | * |
| | | 1591 | * | | @FXDEQ - SYSTEM NUCLEUS AND INDICATOR MATS. | | | | | * |
| | | 1592 | * | | @CANEQ - COMMON CORE LOCATIONS OUTSIDE NUCLEUS EQUATES. | | | | | * |
| | | 1593 | * | | @CY0EQ - CYLINDER ZERO EQUATES. | | | | | * |
| | | 1594 | * | | @HLTEQ - HALT CODE EQUATES. | | | | | * |
| | | 1595 | * | | | | | | | * |
| | | 1596 | * | | OTHER | | | | | * |
| | | 1597 | * | | NONE | | | | | * |
| | | 1598 | * | | ***** | | | | | * |

#DREAD - 3.7B CARD READER ROUTINE

| ERR | LOC | OBJECT | CODE | ADDR | STMT | SOURCE | STATEMENT | VER 15, MOD 00 31/05/22 PAGE 5 |
|------|-----------------|--------|------|-----------|------------|-------------------------------------|-------------------------------|--------------------------------|
| | | | | 1600 | * | HDR | #DREAD | NAME AND NUMBER |
| | | | | 1601 | * | ***** | | |
| | | | | 1602 | * | PROGRAM HEADER FOR DISK LOAD | | |
| | | | | 1603 | * | ***** | | |
| | | | | 1604 | *#DREA | EQU | X'0200' | DISK ADDR OF #DREAD |
| | | | | 1605 | *#DRE | EQU | X'0889' | CORE LOAD ADDRESS OF #DREAD |
| | | | | 1606 | *#@DRE | EQU | 001 | SECTOR CNT OF #DREAD |
| 0889 | | | | 1607 | | ORG | \$\$\$DRE | CORE LOAD ADDRESS |
| | | | | 0889 1608 | \$\$\$\$\$ | EQU | * | FIRST LOCATION IN PROGRAM |
| 0889 | 7BC4D9C5C1C4 | | | 088E 1609 | | DC | CL6'#DREAD' | PROGRAM NAME |
| 088F | 0A | | | 088F 1610 | | DC | IL1'010' | PROGRAM NUMBER OF {DREAD |
| | | | | 0890 1611 | #DREA | EQU | * | ENTRY POINT TO PROGRAM |
| | | | | 1612 | *** | END OF EXPANSION *** | | |
| | | | | 0890 1614 | | USING | DRBASE,@BR | |
| | | | | 0607 1615 | CACLIN | EQU | \$ENDNU+7 | |
| | | | | 0890 1616 | DRBASE | EQU | * | BASE VALUE FOR DREADN |
| | | | | 0890 1617 | DREADN | EQU | * | ENTRY TO READ A CARD |
| 0890 | 34 01 08B8 | | | 1618 | DR0200 | ST | DR0600+@OP1,@BR | SAVE BASE REGISTER |
| 0894 | C2 01 0890 | | | 1619 | | LA | DRBASE,@BR | LOAD BASE REGISTER |
| 0898 | 74 08 2C | | | 1620 | | ST | DR0700+@OP1(,@BR),@ARR | SAVE RETURN ADDR |
| 089B | 3A 10 03C3 | | | 1621 | | SBN | \$KEYCD,\$KYBSY | INDICATE I/O BUSY |
| | | | | 1622 | * | | | |
| | | | | 1623 | * | TEST CARD READER FOR BUSY CONDITION | | |
| | | | | 1624 | * | | | |
| 089F | D1 F2 25 | | | 1625 | | TIO | DR0600(,@BR),@BZ37B | IS READER BUSY ? |
| 08A2 | 3C 40 06FA | | | 1626 | | MVI | \$\$INND,@BLANK | CLEAR CARD BUFFER TO BLANKS |
| 08A6 | 0C F2 06F9 06FA | | | 1627 | | MVC | \$\$INND-1(@LINSZ-1),\$\$INND | |
| 08AC | D1 F0 B5 | | | 1628 | DR0400 | TIO | DRE600(,@BR),@ER37B | BRANCH IF READER NOT READY |
| 08AF | 71 F0 C4 | | | 1629 | DR0500 | LIO | DRLINB(,@BR),@LO37B | LOAD LSR WITH LINE BFFR ADDR |
| 08B2 | F3 F1 00 | | | 1630 | | SIO | @CC37B,@RD37B | START CARD I/O |
| 08B5 | C2 01 0000 | | | 1631 | DR0600 | LA | *-*,@BR | RESTORE BASE REGISTER |
| 08B9 | C0 87 0000 | | | 1632 | DR0700 | B | *-* | RETURN |
| | | | | 1633 | * | | | |
| 08C0 | | | | 1634 | | ORG | DREADN+X'30' | POSITION CRDBSY |
| | | | | 1635 | * | | | |
| | | | | 08C0 1636 | CRDBSY | EQU | * | ENTRY TO TEST CARD BUSY |
| 08C0 | 34 01 08B8 | | | 1637 | | ST | DR0600+@OP1,@BR | SAVE BASE REGISTER |
| 08C4 | C2 01 0890 | | | 1638 | DR1000 | LA | DRBASE,@BR | LOAD BASE REGISTER |
| 08C8 | 74 08 2C | | | 1639 | | ST | DR0700+@OP1(,@BR),@ARR | SAVE RETURN ADDRESS |
| | | | | 1640 | * | | | |
| | | | | 1641 | * | DEVICE BUSY, DO ERROR CHECK | | |
| | | | | 1642 | * | | | |
| 08CB | D1 F2 25 | | | 1643 | DR1200 | TIO | DR0600(,@BR),@BZ37B | IS READER BUSY ? |
| 08CE | D1 F0 68 | | | 1644 | | TIO | DR2000(,@BR),@ER37B | ERROR CONDITION PRESENT ? |
| 08D1 | 74 02 60 | | | 1645 | DR1250 | ST | DR1280+@OP1(,@BR),@XR | SAVE XR |
| 08D4 | 75 02 C4 | | | 1646 | | L | DRLINB(,@BR),@XR | POINT XR TO CARD BUFFER |
| 08D7 | 7C 60 C1 | | | 1647 | | MVI | DRCNTR(,@BR),@CARDL | SET CARD LENGTH IN COUNTER |
| 08DA | BD D0 00 | | | 1648 | DR1260 | CLI | 0(,@XR),DREBRC | IS IT A BRACKET ? |
| 08DD | F2 01 03 | | | 1649 | | JNE | DR1270 | JUMP NO |
| 08E0 | BC 6D 00 | | | 1650 | | MVI | 0(,@XR),DREUSC | MAKE IT AN UNDER SCORE |
| 08E3 | E2 02 01 | | | 1651 | DR1270 | LA | 1(,@XR),@XR | POINT TO NEXT CHARACTER |
| 08E6 | 5F 00 C1 C2 | | | 1652 | | SLC | DRCNTR(1,@BR),DRONES(,@BR) | DECREMENT CNTR |
| 08EA | D0 84 4A | | | 1653 | | BH | DR1260(,@BR) | LOOP BACK FOR REST OF CARD |
| 08ED | C2 02 0000 | | | 1654 | DR1280 | LA | *-*,@XR | RESTORE XR |
| 08F1 | 3B 10 03C3 | | | 1655 | | SBF | \$KEYCD,\$KYBSY | INDICATE I/O COMPLETE |

#DREAD - 3.7B CARD READER ROUTINE

| ERR LOC | OBJECT CODE | ADDR | STMT | SOURCE | STATEMENT | VER 15, MOD 00 | 31/05/22 | PAGE | 6 |
|---------|---------------|------|------|--------|---|----------------|----------|------|---------------------------------|
| 08F5 | D0 87 25 | | 1656 | B | DR0600(,@BR) | | | | GO EXIT |
| | | | 1657 | * | | | | | |
| | | | 1658 | * | ERROR CONDITION PRESENT; SENSE ERROR AND DETERMINE TYPE | | | | |
| | | | 1659 | * | | | | | |
| 08F8 | 70 F2 BE | | 1660 | DR2000 | SNS DRSNSE(,@BR),@SN37B | | | | SENSE ERROR BYTES |
| 08FB | 79 A0 BE | | 1661 | TBF | DRSNSE(,@BR),@NTRDY | | | | TEST FOR NOT READY CONDITION |
| 08FE | D0 90 3B | | 1662 | BF | DR1200(,@BR) | | | | LOOP UNTIL READY |
| 0901 | 38 04 03D5 | | 1663 | DR2200 | TBN \$INDR2,\$ERPND | | | | HAS PREVIOUS ERROR OCCURED ? |
| 0905 | D0 10 7D | | 1664 | BT | DR2400(,@BR) | | | | YES |
| 0908 | 1C 07 0435 C2 | | 1665 | MVC | \$HIST1(#HISLN),DRRDHS+#HSEND(,@BR) | | | | MOVE HISTRY ENTRY |
| 090D | 1E 00 0434 C2 | | 1666 | DR2400 | ALC \$HISTE+#HISCT(1),DRONES(,@BR) | | | | BUMP RETRY CNTR |
| 0912 | 3D 05 0434 | | 1667 | CLI | \$HISTE+#HISCT,@RT37B | | | | 5 TRIES COMPLETE ? |
| 0916 | D0 01 97 | | 1668 | BNE | DR3000(,@BR) | | | | NO, RETRY |
| | | | 1669 | * | | | | | |
| | | | 1670 | * | BRANCH TO LOG HARDWARE ERROR | | | | |
| | | | 1671 | * | | | | | |
| 0919 | 3C 00 0434 | | 1672 | MVI | \$HISTE+#HISCT,@ZERO | | | | SET HARD ERR INDR IN HIST TABLE |
| 091D | 3A 20 03D2 | | 1673 | SBN | \$IOIND,\$HRDR | | | | SET HARD ERR INDR ON |
| 0921 | C0 87 0025 | | 1674 | B | \$DISKN | | | | GO LOG HARD ERR AND HALT |
| 0925 | 057F | 0926 | 1675 | DC | AL2(\$WAITF) | | | | WAIT ONLY FUNCTION |
| 0927 | 3A 04 03D5 | | 1676 | DR3000 | SBN \$INDR2,\$ERPND | | | | SET ERROR INDICATOR ON |
| 092B | 5C 01 B1 C8 | | 1677 | MVC | DR4000+@D1(2,@BR),DRECPH(,@BR) | | | | SET COMPARE ERROR HALT |
| 092F | 78 04 BE | | 1678 | TBN | DRSNSE(,@BR),@CP37B | | | | IS IT A COMPARE ERROR ? |
| 0932 | D0 10 AF | | 1679 | BT | DR4000(,@BR) | | | | |
| 0935 | 78 40 BE | | 1680 | TBN | DRSNSE(,@BR),@TJ37B | | | | IS IT A TRANSPORT JAM ? |
| 0938 | D0 90 41 | | 1681 | BF | DR1250(,@BR) | | | | NO, GO SENSE ERROR AGAIN |
| 093B | 5C 01 B1 C6 | | 1682 | MVC | DR4000+@D1(2,@BR),DRETJH(,@BR) | | | | SET TRANSPORT JAM CODE |
| 093F | F0 00 00 | | 1683 | DR4000 | HPL *-*,*-* | | | | SOFT HALT ON ERROR |
| 0942 | D0 87 1F | | 1684 | B | DR0500(,@BR) | | | | |
| 0945 | F0 00 00 | | 1686 | DRE600 | HPL *-*,*-* | | | | HALT ON NOT READY |
| 0946 | | | 1687 | ORG | *-2 | | | | PLACE HALT CODE |
| 0946 | 1008 | 0947 | 1688 | DC | AL2(@HDNRY) | | | | NOT READY HALT CODE ('C4') |
| 0948 | D0 87 1C | | 1689 | B | DR0400(,@BR) | | | | GO TRST AGAIN |
| | | | 1690 | * | | | | | |
| | | | 1691 | * | HISTORY LOG ENTRY | | | | |
| | | | 1692 | * | | | | | |
| | | 094B | 1693 | DRRDHS | EQU * | | | | CARD READER HISTORY LOG ENTRY |
| 094B | F1 | 094B | 1694 | DC | AL1(@RD37B) | | | | SIO Q - CODE |
| 094C | 00 | 094C | 1695 | DC | AL1(@CC37B) | | | | SIO R - BYTE |
| 094D | | 094E | 1696 | DRSNSE | DS CL2 | | | | SENSE BYTES |
| 094F | | 0950 | 1697 | DS | CL2 | | | | NOT USED |
| 0951 | 00 | 0951 | 1698 | DRCNTR | DC XL1'00' | | | | RETRY COUNTER |
| 0952 | 01 | 0952 | 1699 | DRONES | DC XL1'01' | | | | |
| 0953 | 0607 | 0954 | 1700 | DRLINB | DC AL2(\$ENDNU+7) | | | | DATA ADDR FOR LSR |
| 0955 | 1010 | 0956 | 1701 | DRETJH | DC AL2(@HDTRJ) | | | | TRANSPORT ERR HALT CODE ('C3') |
| 0957 | 1040 | 0958 | 1702 | DRECPH | DC AL2(@HDTRD) | | | | COMPARE ERROR HALT CODE ('C1') |
| | | 006D | 1703 | DREUSC | EQU X'6D' | | | | UNDERSCORE |
| | | 00D0 | 1704 | DREBRC | EQU X'D0' | | | | BRACKET |
| | | 00C9 | 1705 | DRSIZE | EQU *-DREADN | | | | SIZE OF PROGRAM |
| | | | 1706 | PRINT | ON | | | | |
| | | FFFF | 1707 | END | | | | | |

TOTAL STATEMENTS IN ERROR IN THIS ASSEMBLY = 0

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 7

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|------------|-----|-------|------|-------------------------------|
| \$\$\$\$\$ | 001 | 0889 | 1608 | |
| \$\$\$CMD | 001 | 0020 | 0845 | |
| \$\$\$DAT | 001 | 0040 | 0844 | |
| \$\$\$EPL | 001 | 0091 | 0841 | |
| \$\$\$ERN | 001 | 0080 | 0895 | |
| \$\$\$FUN | 001 | 0010 | 0846 | |
| \$\$\$NLN | 001 | 00A0 | 0891 | |
| \$\$\$STD | 001 | 0081 | 0840 | |
| \$\$BNLN | 001 | 0605 | 0821 | 0823 |
| \$\$CDBS | 001 | 08C0 | 0871 | |
| \$\$CDND | 001 | 0666 | 0830 | |
| \$\$CDRD | 001 | 0890 | 0869 | 0871 |
| \$\$CKEY | 001 | 0603 | 0819 | |
| \$\$CKFF | 001 | 0B3D | 0851 | |
| \$\$COFF | 001 | 0B44 | 0850 | |
| \$\$CSNS | 001 | 209C | 0880 | |
| \$\$DATB | 001 | 0BBF | 0852 | |
| \$\$EOSA | 001 | 0AFE | 0849 | |
| \$\$ERSK | 001 | 1C00 | 0890 | |
| \$\$FITS | 001 | 1D00 | 0898 | |
| \$\$FLIB | 001 | 06FF | 0897 | |
| \$\$ILEN | 001 | 0601 | 0815 | 0817 0821 |
| \$\$ILHD | 001 | 0600 | 0813 | 0815 |
| \$\$INLN | 001 | 0607 | 0828 | 0830 0832 |
| \$\$INND | 001 | 06FA | 0832 | 1626* 1627 1627* |
| \$\$KBDT | 001 | 09E1 | 0839 | 0843 |
| \$\$KBSN | 001 | 09E2 | 0843 | 0848 |
| \$\$KLD1 | 001 | 0600 | 0903 | |
| \$\$KLD2 | 001 | 0700 | 0905 | |
| \$\$KLD3 | 001 | 0C00 | 0907 | |
| \$\$LPOS | 001 | 09EB | 0848 | |
| \$\$PCNT | 001 | 07E9 | 0864 | |
| \$\$PLYN | 001 | 2004 | 0878 | |
| \$\$PRES | 001 | 0890 | 0837 | 0839 0849 0850 0851 0852 0869 |
| \$\$PRFL | 001 | 2143 | 0882 | |
| \$\$PRNT | 001 | 0707 | 0858 | 0859 0863 0864 |
| \$\$PRTN | 001 | 0782 | 0859 | |
| \$\$PSIO | 001 | 07CE | 0863 | |
| \$\$PYCD | 001 | 2200 | 0884 | |
| \$\$PYMP | 001 | 2000 | 0876 | 0878 0880 0882 0884 |
| \$\$SLIB | 001 | 1C00 | 0893 | |
| \$\$TPCD | 001 | 0606 | 0823 | 0828 |
| \$\$UPAR | 001 | 0602 | 0817 | 0819 |
| \$\$WSPB | 001 | 1E00 | 0896 | |
| \$\$XIND | 001 | 06FF | 0894 | 0897 |
| \$\$ZERO | 001 | 0000 | 0409 | 0410 0412 0413 0414 0418 0876 |
| \$ABORT | 001 | 0010 | 0522 | |
| \$BASIC | 001 | 0080 | 0580 | |
| \$BIGCD | 001 | 0080 | 0656 | |
| \$BLDPL | 001 | 0579 | 0789 | 0791 |
| \$BLNOE | 001 | 0569 | 0779 | |
| \$BLOAD | 001 | 0522 | 0770 | 0772 0775 0788 0789 |
| \$BLRTN | 001 | 0550 | 0778 | 0779 |
| \$BRSAV | 001 | 03C5 | 0467 | 0468 |
| \$BSADR | 001 | 0587 | 0794 | 0796 |
| \$BUFPT | 001 | 03E3 | 0675 | 0676 |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 8

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|----------|-----|-------|------|--|
| \$CABLD | 001 | 04B4 | 0748 | 0749 |
| \$CAERK | 001 | 0469 | 0725 | 0728 |
| \$CAERR | 001 | 03CD | 0473 | 0475 |
| \$CAIPL | 001 | 049D | 0744 | 0746 |
| \$CALLI | 001 | 0008 | 0665 | |
| \$CARDI | 001 | 0001 | 0436 | |
| \$CARPL | 001 | 04A1 | 0746 | 0748 |
| \$CIENT | 001 | 0483 | 0735 | 0736 |
| \$CIEXT | 001 | 0480 | 0734 | 0735 |
| \$CIMSK | 001 | 0476 | 0731 | 0734 |
| \$CISUS | 001 | 0496 | 0739 | 0744 |
| \$CLBFR | 001 | 0010 | 0623 | |
| \$CMDKY | 001 | 0008 | 0535 | |
| \$CMODE | 001 | 0002 | 0585 | |
| \$CONFIG | 001 | 03DD | 0648 | 0658 |
| \$CRPOS | 001 | 03E2 | 0674 | 0675 |
| \$CRTAD | 001 | 044D | 0713 | 0714 |
| \$CRTAV | 001 | 0002 | 0529 | |
| \$CRTDN | 001 | 0002 | 0553 | |
| \$CRTIN | 001 | 03D3 | 0550 | 0557 |
| \$CRTNO | 001 | 0004 | 0532 | |
| \$CRTPU | 001 | 0004 | 0554 | |
| \$CRTSP | 001 | 0008 | 0555 | |
| \$CRTUP | 001 | 0001 | 0552 | |
| \$CRUSH | 001 | 0080 | 0661 | |
| \$CSDPL | 001 | 050E | 0760 | 0761 |
| \$C0001 | 001 | 0464 | 0717 | 0723 |
| \$DATE | 001 | 043A | 0698 | 0699 |
| \$DBGUF | 001 | 03E0 | 0660 | 0669 |
| \$DBLOK | 001 | 0001 | 0610 | |
| \$DFDET | 001 | 03E8 | 0681 | 0682 |
| \$DISKN | 001 | 0025 | 0412 | 1674 |
| \$DKERR | 001 | 0008 | 0591 | |
| \$DKSIZ | 001 | 03D7 | 0635 | 0643 0684 |
| \$DK100 | 001 | 0001 | 0637 | |
| \$DK200 | 001 | 0002 | 0638 | |
| \$DK400 | 001 | 0004 | 0639 | |
| \$DK600 | 001 | 0008 | 0640 | |
| \$DK800 | 001 | 0010 | 0641 | |
| \$DPLSV | 001 | 0449 | 0709 | 0711 |
| \$DTNMB | 001 | 0040 | 0456 | |
| \$DTRDR | 001 | 0040 | 0544 | |
| \$ENDNU | 001 | 0600 | 0803 | 0813 0837 0858 0894 0903 0905 0907 1615 1700 |
| \$ERDPL | 001 | 046F | 0728 | 0730 |
| \$ERFIL | 001 | 0040 | 0483 | |
| \$ERHRD | 001 | 0004 | 0615 | |
| \$ERKEY | 001 | 0080 | 0487 | |
| \$ERLOG | 001 | 0345 | 0417 | |
| \$ERMAD | 001 | 0472 | 0730 | 0731 |
| \$ERPND | 001 | 0004 | 0588 | 1663 1676 |
| \$ERRCT | 001 | 03CF | 0489 | |
| \$ERRPG | 001 | 03CE | 0477 | |
| \$ERSFL | 001 | 0035 | 0482 | |
| \$ERSTK | 001 | 0030 | 0480 | |
| \$ER050 | 001 | 0363 | 0418 | |
| \$ER1N2 | 001 | 0050 | 0485 | |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 9

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|---------|-----|-------|------|-----------------------|
| \$EXADR | 001 | 0517 | 0763 | 0765 |
| \$EXCMD | 001 | 0001 | 0517 | |
| \$EXFTR | 001 | 043B | 0699 | 0704 |
| \$FCIND | 001 | 0010 | 0595 | |
| \$FDIND | 001 | 0040 | 0602 | |
| \$FEARR | 001 | 0004 | 0410 | |
| \$FEMAP | 001 | 0588 | 0796 | 0797 |
| \$FILIB | 001 | 03DA | 0646 | 0647 |
| \$FITIN | 001 | 0010 | 0571 | |
| \$FUIND | 001 | 0020 | 0600 | |
| \$GUFIO | 001 | 0583 | 0793 | 0794 |
| \$GUFIR | 001 | 0008 | 0445 | |
| \$HISTE | 001 | 042E | 0696 | 0697 1666* 1667 1672* |
| \$HIST1 | 001 | 0435 | 0697 | 0698 1665* |
| \$HRDER | 001 | 0020 | 0541 | 1673 |
| \$INDR1 | 001 | 03D4 | 0557 | 0583 |
| \$INDR2 | 001 | 03D5 | 0583 | 0608 1663 1676* |
| \$INDR3 | 001 | 03D6 | 0608 | 0635 |
| \$INLNO | 001 | 03CF | 0475 | 0477 0489 0496 |
| \$INRPT | 001 | 0020 | 0453 | |
| \$IOIND | 001 | 03D2 | 0524 | 0550 1673* |
| \$IOPGS | 001 | 0010 | 0664 | |
| \$IOYES | 001 | 0002 | 0439 | |
| \$IPLDV | 001 | 05FF | 0800 | 0803 |
| \$IRKEY | 001 | 0020 | 0663 | |
| \$KEYBD | 001 | 03E1 | 0669 | 0674 |
| \$KEYCD | 001 | 03C3 | 0433 | 0467 1621* 1655* |
| \$KEYDT | 001 | 0040 | 0577 | |
| \$KE090 | 001 | 00DE | 0413 | |
| \$KE130 | 001 | 01D5 | 0414 | |
| \$KYBSY | 001 | 0010 | 0450 | 1621 1655 |
| \$LDRTN | 001 | 0571 | 0788 | |
| \$LEVEL | 001 | 03DF | 0658 | 0660 |
| \$LIST | 001 | 0002 | 0612 | |
| \$LMRGN | 001 | 03C1 | 0428 | 0430 |
| \$LNPTR | 001 | 0080 | 0547 | |
| \$LOADB | 001 | 054A | 0772 | |
| \$LOADR | 001 | 051A | 0765 | 0768 |
| \$LPRIO | 001 | 03EA | 0682 | |
| \$LPROS | 001 | 03E5 | 0677 | 0679 |
| \$LPRP3 | 001 | 03E4 | 0676 | 0677 |
| \$MOUNT | 001 | 0020 | 0626 | |
| \$MPDWN | 001 | 0001 | 0526 | |
| \$NEXTB | 001 | 03E6 | 0679 | 0680 |
| \$NEXTL | 001 | 03E7 | 0680 | 0681 |
| \$NOENB | 001 | 0008 | 0618 | |
| \$NOLST | 001 | 0004 | 0442 | |
| \$NUCBS | 001 | 03C0 | 0425 | 0426 |
| \$NWRKF | 001 | 0080 | 0631 | |
| \$NWRKR | 001 | 0040 | 0628 | |
| \$PASWD | 001 | 042D | 0695 | 0696 |
| \$PAUSD | 001 | 04BA | 0749 | 0751 |
| \$PAUSE | 001 | 0002 | 0519 | |
| \$PGMDT | 001 | 0020 | 0574 | |
| \$PGMST | 001 | 0010 | 0538 | |
| \$PKERT | 001 | 0419 | 0693 | 0695 |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 10

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|---------|-----|-------|------|----------------|
| \$PLST1 | 001 | 0454 | 0714 | 0715 |
| \$PLST2 | 001 | 045B | 0715 | 0716 |
| \$PLST3 | 001 | 0462 | 0716 | 0717 |
| \$PRDEV | 001 | 044B | 0711 | 0713 |
| \$PRESN | 001 | 0002 | 0562 | |
| \$PROCI | 001 | 0001 | 0559 | |
| \$PRPOS | 001 | 03C2 | 0430 | 0433 |
| \$PSDBR | 001 | 04FA | 0754 | |
| \$PSDXR | 001 | 04F2 | 0753 | 0754 |
| \$PSTEP | 001 | 0004 | 0520 | |
| \$PSTMT | 001 | 0008 | 0521 | |
| \$PTCH1 | 001 | 03F5 | 0684 | 0688 |
| \$READY | 001 | 0080 | 0604 | |
| \$REORD | 001 | 0040 | 0662 | |
| \$RLOAD | 001 | 051E | 0768 | 0770 |
| \$RMGRN | 001 | 03C0 | 0426 | 0428 |
| \$RSTR | 001 | 04D6 | 0751 | 0753 0755 0760 |
| \$RUNIT | 001 | 0001 | 0498 | |
| \$SFAID | 001 | 050D | 0756 | |
| \$SPRNT | 001 | 0465 | 0723 | 0725 |
| \$SRTRN | 001 | 04FE | 0755 | 0756 |
| \$STEPT | 001 | 0002 | 0499 | |
| \$SWPCR | 001 | 0511 | 0761 | 0763 |
| \$TABLN | 001 | 03CB | 0470 | 0473 |
| \$TFLOW | 001 | 0008 | 0505 | |
| \$TRACE | 001 | 0004 | 0500 | |
| \$TRALL | 001 | 0010 | 0506 | |
| \$TROVR | 001 | 054E | 0775 | 0778 |
| \$TRUNK | 001 | 0080 | 0458 | |
| \$TRVAR | 001 | 0020 | 0507 | |
| \$UNMSK | 001 | 048D | 0736 | 0739 |
| \$USRDR | 001 | 03DC | 0647 | 0648 |
| \$VMDEF | 001 | 0080 | 0511 | |
| \$VOLF1 | 001 | 03FE | 0690 | 0691 |
| \$VOLF2 | 001 | 040E | 0692 | |
| \$VOLID | 001 | 03F6 | 0688 | 0689 0693 |
| \$VOLR1 | 001 | 03F6 | 0689 | 0690 |
| \$VOLR2 | 001 | 0406 | 0691 | 0692 |
| \$WAITF | 001 | 057F | 0791 | 0793 1675 |
| \$WFDEF | 001 | 0040 | 0705 | |
| \$WFLOK | 001 | 0008 | 0568 | |
| \$WFNME | 001 | 0443 | 0704 | 0709 |
| \$WSIND | 001 | 0004 | 0565 | |
| \$XIND1 | 001 | 03D0 | 0496 | 0515 |
| \$XIND2 | 001 | 03D1 | 0515 | 0524 |
| \$XIND3 | 001 | 03D8 | 0643 | 0646 |
| \$XPREC | 001 | 0040 | 0508 | |
| \$XRSAV | 001 | 03C7 | 0468 | 0470 |
| \$ZTRAD | 001 | 05A2 | 0797 | |
| \$12K | 001 | 0004 | 0652 | |
| \$16CKY | 001 | 0008 | 0654 | |
| \$16K | 001 | 0002 | 0651 | |
| \$22IMP | 001 | 0001 | 0649 | |
| ###BL | 001 | 0000 | 1309 | |
| ###CK | 001 | 0000 | 1437 | |
| ###CN | 001 | 0000 | 1405 | |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 11

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|--------|-----|-------|------|------------|
| ###CO | 001 | 0000 | 1197 | |
| ###CS | 001 | 0000 | 1257 | |
| ###DR | 001 | 0000 | 1001 | |
| ###ER | 001 | 0000 | 1201 | |
| ###FS | 001 | 0000 | 1297 | |
| ###IN | 001 | 0000 | 1441 | |
| ###PW | 001 | 0000 | 1445 | |
| ###RS | 001 | 0000 | 1277 | |
| ###SA | 001 | 0000 | 1265 | |
| ###SS | 001 | 0000 | 1261 | |
| ###VU | 001 | 0600 | 1221 | |
| ###0T | 001 | 0700 | 0993 | |
| ###1T | 001 | 0000 | 0997 | |
| ###BCO | 001 | 0600 | 1009 | |
| ###BOV | 001 | 0800 | 1281 | |
| ###DPR | 001 | 0700 | 1017 | |
| ###DRE | 001 | 0889 | 1033 | 1607 |
| ###DSP | 001 | 2800 | 1053 | |
| ###ECM | 001 | 0C00 | 1313 | |
| ###EFK | 001 | 0C00 | 1333 | |
| ###ERR | 001 | 0C00 | 1305 | |
| ###EXM | 001 | 0C00 | 1193 | |
| ###FIL | 001 | 0E00 | 1273 | |
| ###FIS | 001 | 0E00 | 1269 | |
| ###FML | 001 | 0200 | 1401 | |
| ###FMS | 001 | 0200 | 1241 | |
| ###GRA | 001 | 0889 | 1165 | |
| ###GUF | 001 | 0C00 | 1301 | |
| ###INL | 001 | 0600 | 1381 | |
| ###INS | 001 | 0600 | 1005 | |
| ###KAL | 001 | 0C00 | 1169 | |
| ###KCA | 001 | 0C00 | 1385 | |
| ###KCH | 001 | 0C00 | 1137 | |
| ###KCN | 001 | 0C00 | 1253 | |
| ###KCT | 001 | 0C00 | 1105 | |
| ###KDE | 001 | 0C00 | 1101 | |
| ###KDI | 001 | 0D00 | 1181 | |
| ###KDN | 001 | 0C00 | 1089 | |
| ###KDO | 001 | 0E00 | 1185 | |
| ###KED | 001 | 0C00 | 1025 | |
| ###KEN | 001 | 0C00 | 1029 | |
| ###KEX | 001 | 0C00 | 1049 | |
| ###KGO | 001 | 0C00 | 1021 | |
| ###KHE | 001 | 0C00 | 1205 | |
| ###KKE | 001 | 0C00 | 1433 | |
| ###KLI | 001 | 0C00 | 1109 | |
| ###KLL | 001 | 0920 | 1409 | |
| ###KLO | 001 | 0C00 | 1113 | |
| ###KME | 001 | 0D00 | 1093 | |
| ###KMO | 001 | 0C00 | 1037 | |
| ###KNA | 001 | 0C00 | 1149 | |
| ###KOV | 001 | 0E00 | 1069 | |
| ###KPA | 001 | 0C00 | 1045 | |
| ###KPO | 001 | 0C00 | 1133 | |
| ###KPR | 001 | 0C00 | 1157 | |
| ###KRE | 001 | 0C00 | 1077 | |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 12

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|--------|-----|-------|------|------------|
| ###KRL | 001 | 0700 | 1173 | |
| ###KRM | 001 | 0C00 | 1041 | |
| ###KRN | 001 | 0700 | 1061 | |
| ###KRO | 001 | 0D00 | 1065 | |
| ###KRS | 001 | 0C00 | 1389 | |
| ###KRU | 001 | 0C00 | 1085 | |
| ###KRV | 001 | 0800 | 1177 | |
| ###KSA | 001 | 0C00 | 1121 | |
| ###KSE | 001 | 0E00 | 1161 | |
| ###KSO | 001 | 0C20 | 1213 | |
| ###KSS | 001 | 0C00 | 1145 | |
| ###KSV | 001 | 0980 | 1141 | |
| ###KSY | 001 | 0C00 | 1153 | |
| ###KWI | 001 | 0C00 | 1081 | |
| ###KWR | 001 | 0C00 | 1073 | |
| ###LOA | 001 | 0600 | 1013 | |
| ###MIP | 001 | 0C00 | 1209 | |
| ###SDS | 001 | 0C00 | 1321 | |
| ###SFF | 001 | 0E00 | 1325 | |
| ###SFL | 001 | 0F00 | 1317 | |
| ###SFO | 001 | 1500 | 1289 | |
| ###SFS | 001 | 0C00 | 1285 | |
| ###SPA | 001 | 0C00 | 1125 | |
| ###SPO | 001 | 0806 | 1129 | |
| ###SPS | 001 | 0C00 | 1117 | |
| ###STR | 001 | 1600 | 1293 | |
| ###TDC | 001 | 1000 | 1097 | |
| ###TSY | 001 | 1000 | 1057 | |
| ###TVK | 001 | 0FC0 | 1233 | |
| ###UAL | 001 | 0C00 | 1249 | |
| ###UAT | 001 | 0900 | 1345 | |
| ###UCD | 001 | 0900 | 1353 | |
| ###UCN | 001 | 0C00 | 1337 | |
| ###UCP | 001 | 0700 | 1341 | |
| ###UDE | 001 | 0C00 | 1357 | |
| ###UDI | 001 | 0C00 | 1361 | |
| ###UEX | 001 | 0C00 | 1245 | |
| ###UIN | 001 | 0C00 | 1349 | |
| ###UPA | 001 | 0C00 | 1329 | |
| ###UPO | 001 | 0C00 | 1397 | |
| ###UPT | 001 | 0C00 | 1393 | |
| ###VCR | 001 | 2000 | 1189 | |
| ###VLO | 001 | 0600 | 1225 | |
| ###VOD | 001 | 0600 | 1229 | |
| ###VVM | 001 | 0000 | 1237 | |
| ###VXI | 001 | 0600 | 1217 | |
| ###ZDU | 001 | 1100 | 1369 | |
| ###ZLB | 001 | 1100 | 1413 | |
| ###ZLO | 001 | 1100 | 1373 | |
| ###ZLV | 001 | 0F00 | 1429 | |
| ###ZL1 | 001 | 0F00 | 1417 | |
| ###ZL2 | 001 | 0F00 | 1421 | |
| ###ZL3 | 001 | 0C00 | 1425 | |
| ###ZTR | 001 | 1000 | 1365 | |
| ###ZUT | 001 | 0C00 | 1377 | |
| ##BLN | 001 | 18D4 | 1308 | |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 13

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|-----------|-----|-------|------|------------|
| ##\$CKT | 001 | 2118 | 1436 | |
| ##\$CNF | 001 | 2000 | 1404 | |
| ##\$COR | 001 | 0800 | 1196 | |
| ##\$CSA | 001 | 1000 | 1256 | |
| ##\$DRT | 001 | 0000 | 1000 | |
| ##\$ERM | 001 | 0928 | 1200 | |
| ##\$FSP | 001 | 1880 | 1296 | |
| ##\$INV | 001 | 212C | 1440 | |
| ##\$PWR | 001 | 2300 | 1444 | |
| ##\$RSP | 001 | 1780 | 1276 | |
| ##\$SAV | 001 | 1180 | 1264 | |
| ##\$SSA | 001 | 1128 | 1260 | |
| ##\$VUF | 001 | 0B08 | 1220 | |
| ##\$0TR | 001 | 0000 | 0992 | |
| ##\$1TR | 001 | 0080 | 0996 | |
| ##\$@#BL | 001 | 0001 | 1310 | |
| ##\$@#CK | 001 | 0004 | 1438 | |
| ##\$@#CN | 001 | 0001 | 1406 | |
| ##\$@#CO | 001 | 003A | 1198 | |
| ##\$@#CS | 001 | 003A | 1258 | |
| ##\$@#DR | 001 | 0008 | 1002 | |
| ##\$@#ER | 001 | 0032 | 1202 | |
| ##\$@#FS | 001 | 0030 | 1298 | |
| ##\$@#IN | 001 | 003A | 1442 | |
| ##\$@#PW | 001 | 00C0 | 1446 | |
| ##\$@#RS | 001 | 0030 | 1278 | |
| ##\$@#SA | 001 | 0108 | 1266 | |
| ##\$@#SS | 001 | 0001 | 1262 | |
| ##\$@#VU | 001 | 0002 | 1222 | |
| ##\$@#0T | 001 | 0018 | 0994 | |
| ##\$@#1T | 001 | 0018 | 0998 | |
| ##\$@#BCO | 001 | 0018 | 1010 | |
| ##\$@#BOV | 001 | 0018 | 1282 | |
| ##\$@#DPR | 001 | 0005 | 1018 | |
| ##\$@#DRE | 001 | 0001 | 1034 | |
| ##\$@#DSP | 001 | 0004 | 1054 | |
| ##\$@#ECM | 001 | 0006 | 1314 | |
| ##\$@#EFK | 001 | 0002 | 1334 | |
| ##\$@#ERR | 001 | 0003 | 1306 | |
| ##\$@#EXM | 001 | 0003 | 1194 | |
| ##\$@#FIL | 001 | 0009 | 1274 | |
| ##\$@#FIS | 001 | 0009 | 1270 | |
| ##\$@#FML | 001 | 0052 | 1402 | |
| ##\$@#FMS | 001 | 0052 | 1242 | |
| ##\$@#GRA | 001 | 0003 | 1166 | |
| ##\$@#GUF | 001 | 0010 | 1302 | |
| ##\$@#INL | 001 | 0010 | 1382 | |
| ##\$@#INS | 001 | 0010 | 1006 | |
| ##\$@#KAL | 001 | 000F | 1170 | |
| ##\$@#KCA | 001 | 000C | 1386 | |
| ##\$@#KCH | 001 | 000C | 1138 | |
| ##\$@#KCN | 001 | 0010 | 1254 | |
| ##\$@#KCT | 001 | 0009 | 1106 | |
| ##\$@#KDE | 001 | 0010 | 1102 | |
| ##\$@#KDI | 001 | 0005 | 1182 | |
| ##\$@#KDN | 001 | 0010 | 1090 | |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 14

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|---------|-----|-------|------|------------|
| #\$@KDO | 001 | 000C | 1186 | |
| #\$@KED | 001 | 000E | 1026 | |
| #\$@KEN | 001 | 0006 | 1030 | |
| #\$@KEX | 001 | 0003 | 1050 | |
| #\$@KGO | 001 | 0002 | 1022 | |
| #\$@KHE | 001 | 000C | 1206 | |
| #\$@KKE | 001 | 0006 | 1434 | |
| #\$@KLI | 001 | 0011 | 1110 | |
| #\$@KLL | 001 | 0001 | 1410 | |
| #\$@KLO | 001 | 0008 | 1114 | |
| #\$@KME | 001 | 0003 | 1094 | |
| #\$@KMO | 001 | 0004 | 1038 | |
| #\$@KNA | 001 | 0008 | 1150 | |
| #\$@KOV | 001 | 0009 | 1070 | |
| #\$@KPA | 001 | 0005 | 1046 | |
| #\$@KPO | 001 | 000D | 1134 | |
| #\$@KPR | 001 | 0009 | 1158 | |
| #\$@KRE | 001 | 0002 | 1078 | |
| #\$@KRL | 001 | 0004 | 1174 | |
| #\$@KRM | 001 | 0003 | 1042 | |
| #\$@KRN | 001 | 0003 | 1062 | |
| #\$@KRO | 001 | 000A | 1066 | |
| #\$@KRS | 001 | 000A | 1390 | |
| #\$@KRU | 001 | 0003 | 1086 | |
| #\$@KRV | 001 | 000D | 1178 | |
| #\$@KSA | 001 | 0011 | 1122 | |
| #\$@KSE | 001 | 0004 | 1162 | |
| #\$@KSO | 001 | 0005 | 1214 | |
| #\$@KSS | 001 | 000B | 1146 | |
| #\$@KSV | 001 | 0002 | 1142 | |
| #\$@KSY | 001 | 000F | 1154 | |
| #\$@KWI | 001 | 0002 | 1082 | |
| #\$@KWR | 001 | 0002 | 1074 | |
| #\$@LOA | 001 | 0013 | 1014 | |
| #\$@MIP | 001 | 000D | 1210 | |
| #\$@SDS | 001 | 0004 | 1322 | |
| #\$@SFF | 001 | 0008 | 1326 | |
| #\$@SFL | 001 | 0005 | 1318 | |
| #\$@SFO | 001 | 0003 | 1290 | |
| #\$@SFS | 001 | 0011 | 1286 | |
| #\$@SPA | 001 | 0004 | 1126 | |
| #\$@SPO | 001 | 0003 | 1130 | |
| #\$@SPS | 001 | 0001 | 1118 | |
| #\$@STR | 001 | 0002 | 1294 | |
| #\$@TDC | 001 | 0003 | 1098 | |
| #\$@TSY | 001 | 0003 | 1058 | |
| #\$@TVK | 001 | 0001 | 1234 | |
| #\$@UAL | 001 | 0011 | 1250 | |
| #\$@UAT | 001 | 000C | 1346 | |
| #\$@UCD | 001 | 000B | 1354 | |
| #\$@UCN | 001 | 0009 | 1338 | |
| #\$@UCP | 001 | 000F | 1342 | |
| #\$@UDE | 001 | 000E | 1358 | |
| #\$@UDI | 001 | 0008 | 1362 | |
| #\$@UEX | 001 | 000E | 1246 | |
| #\$@UIN | 001 | 000F | 1350 | |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 15

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|---------|-----|-------|------|------------|
| #\$@UPA | 001 | 0004 | 1330 | |
| #\$@UPO | 001 | 0005 | 1398 | |
| #\$@UPT | 001 | 0012 | 1394 | |
| #\$@VCR | 001 | 0008 | 1190 | |
| #\$@VLO | 001 | 0002 | 1226 | |
| #\$@VOD | 001 | 0016 | 1230 | |
| #\$@VVM | 001 | 0030 | 1238 | |
| #\$@VXI | 001 | 0002 | 1218 | |
| #\$@ZDU | 001 | 0008 | 1370 | |
| #\$@ZLB | 001 | 0002 | 1414 | |
| #\$@ZLO | 001 | 000C | 1374 | |
| #\$@ZLV | 001 | 0006 | 1430 | |
| #\$@ZL1 | 001 | 0007 | 1418 | |
| #\$@ZL2 | 001 | 000D | 1422 | |
| #\$@ZL3 | 001 | 000A | 1426 | |
| #\$@ZTR | 001 | 0001 | 1366 | |
| #\$@ZUT | 001 | 0014 | 1378 | |
| #\$BCOM | 001 | 0080 | 1008 | |
| #\$BOLV | 001 | 1780 | 1280 | |
| #\$DPRI | 001 | 014C | 1016 | |
| #\$DREA | 001 | 0200 | 1032 | |
| #\$DSPL | 001 | 0240 | 1052 | |
| #\$ECMA | 001 | 1900 | 1312 | |
| #\$EFKE | 001 | 1990 | 1332 | |
| #\$ERRP | 001 | 18C0 | 1304 | |
| #\$EXMS | 001 | 07D4 | 1192 | |
| #\$FILN | 001 | 1724 | 1272 | |
| #\$FIST | 001 | 1700 | 1268 | |
| #\$FMLN | 001 | 1E00 | 1400 | |
| #\$FMST | 001 | 0D00 | 1240 | |
| #\$GRAP | 001 | 0690 | 1164 | |
| #\$GUFU | 001 | 1880 | 1300 | |
| #\$INLN | 001 | 1C84 | 1380 | |
| #\$INST | 001 | 0020 | 1004 | |
| #\$KALL | 001 | 06A4 | 1168 | |
| #\$KCAL | 001 | 1CC4 | 1384 | |
| #\$KCHA | 001 | 053C | 1136 | |
| #\$KCND | 001 | 0F80 | 1252 | |
| #\$KCTL | 001 | 03BC | 1104 | |
| #\$KDEL | 001 | 035C | 1100 | |
| #\$KDIS | 001 | 0744 | 1180 | |
| #\$KDNT | 001 | 0300 | 1088 | |
| #\$KDOV | 001 | 0780 | 1184 | |
| #\$KEDI | 001 | 0188 | 1024 | |
| #\$KENA | 001 | 01C4 | 1028 | |
| #\$KEXT | 001 | 0234 | 1048 | |
| #\$KGOS | 001 | 0180 | 1020 | |
| #\$KHEL | 001 | 0A30 | 1204 | |
| #\$KKEY | 001 | 2100 | 1432 | |
| #\$KLIS | 001 | 0400 | 1108 | |
| #\$KLLA | 001 | 2004 | 1408 | |
| #\$KLOG | 001 | 0444 | 1112 | |
| #\$KMER | 001 | 030C | 1092 | |
| #\$KMOU | 001 | 0204 | 1036 | |
| #\$KNAM | 001 | 05C0 | 1148 | |
| #\$KOVN | 001 | 0290 | 1068 | |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 16

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|---------|-----|-------|------|------------|
| #\$KPAS | 001 | 0220 | 1044 | |
| #\$KPOO | 001 | 0508 | 1132 | |
| #\$KPRT | 001 | 063C | 1156 | |
| #\$KREA | 001 | 02BC | 1076 | |
| #\$KRLA | 001 | 0700 | 1172 | |
| #\$KRMO | 001 | 0214 | 1040 | |
| #\$KRNU | 001 | 0280 | 1060 | |
| #\$KROV | 001 | 028C | 1064 | |
| #\$KRSU | 001 | 1D24 | 1388 | |
| #\$KRUN | 001 | 02CC | 1084 | |
| #\$KRVL | 001 | 0710 | 1176 | |
| #\$KSAV | 001 | 0488 | 1120 | |
| #\$KSET | 001 | 0680 | 1160 | |
| #\$KSOV | 001 | 0AC8 | 1212 | |
| #\$KSSP | 001 | 0594 | 1144 | |
| #\$KSVL | 001 | 058C | 1140 | |
| #\$KSYM | 001 | 0600 | 1152 | |
| #\$KWID | 001 | 02C4 | 1080 | |
| #\$KWRI | 001 | 02B4 | 1072 | |
| #\$LOAD | 001 | 0100 | 1012 | |
| #\$MIPP | 001 | 0A80 | 1208 | |
| #\$SDSY | 001 | 192C | 1320 | |
| #\$SFFI | 001 | 193C | 1324 | |
| #\$SFLO | 001 | 1918 | 1316 | |
| #\$SFOV | 001 | 1844 | 1288 | |
| #\$SFSY | 001 | 1800 | 1284 | |
| #\$SPAC | 001 | 04CC | 1124 | |
| #\$SPOV | 001 | 04DC | 1128 | |
| #\$SPSY | 001 | 0484 | 1116 | |
| #\$STRO | 001 | 1850 | 1292 | |
| #\$TDCK | 001 | 0350 | 1096 | |
| #\$TSYK | 001 | 0250 | 1056 | |
| #\$TVKB | 001 | 0BAC | 1232 | |
| #\$UALL | 001 | 0F00 | 1248 | |
| #\$UATR | 001 | 1A38 | 1344 | |
| #\$UCDI | 001 | 1AD8 | 1352 | |
| #\$UCNF | 001 | 19B8 | 1336 | |
| #\$UCPL | 001 | 19DC | 1340 | |
| #\$UDEL | 001 | 1B24 | 1356 | |
| #\$UDIS | 001 | 1B5C | 1360 | |
| #\$UEXL | 001 | 0EA8 | 1244 | |
| #\$UINI | 001 | 1A88 | 1348 | |
| #\$UPAC | 001 | 1980 | 1328 | |
| #\$UPOV | 001 | 1D24 | 1396 | |
| #\$UPTF | 001 | 1D5C | 1392 | |
| #\$VCRT | 001 | 07B4 | 1188 | |
| #\$VLOA | 001 | 0B80 | 1224 | |
| #\$VODK | 001 | 0B88 | 1228 | |
| #\$VVMR | 001 | 0C00 | 1236 | |
| #\$VXIT | 001 | 0B00 | 1216 | |
| #\$ZDUM | 001 | 1BA4 | 1368 | |
| #\$ZLBM | 001 | 2008 | 1412 | |
| #\$ZLOA | 001 | 1BC4 | 1372 | |
| #\$ZLVR | 001 | 20B0 | 1428 | |
| #\$ZL1M | 001 | 2010 | 1416 | |
| #\$ZL2M | 001 | 2030 | 1420 | |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 17

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|---------|-----|-------|------|------------------|
| #\$ZL3M | 001 | 2088 | 1424 | |
| #\$ZTRA | 001 | 1B9C | 1364 | |
| #\$ZUTM | 001 | 1C14 | 1376 | |
| #@CORS | 001 | 0005 | 0959 | |
| #@MVSD | 001 | 0001 | 0967 | |
| #@NERO | 001 | 0003 | 0961 | |
| #@OBRA | 001 | 0002 | 0963 | |
| #@PTFL | 001 | 0006 | 0982 | |
| #@PTFS | 001 | 0001 | 0981 | |
| #@VCNT | 001 | 0002 | 0979 | |
| #@VLAB | 001 | 0001 | 0974 | |
| #@VLSD | 001 | 0001 | 0965 | |
| #CNDIS | 001 | 0001 | 0934 | |
| #CNFIG | 001 | 0005 | 0970 | |
| #CORSV | 001 | 0010 | 0958 | |
| #DKEXT | 001 | 0002 | 0941 | |
| #DREA | 001 | 0890 | 1611 | |
| #DREAD | 001 | 0000 | 0001 | |
| #FIGSC | 001 | 0001 | 0971 | |
| #HISCT | 001 | 0006 | 0948 | 1666* 1667 1672* |
| #HISDX | 001 | 0003 | 0943 | |
| #HISLN | 001 | 0008 | 0940 | 0941 1665 |
| #HISN1 | 001 | 0003 | 0946 | |
| #HISN2 | 001 | 0005 | 0947 | |
| #HISTC | 001 | 0007 | 0950 | |
| #HISTN | 001 | 0009 | 0952 | |
| #HISTQ | 001 | 0000 | 0944 | |
| #HISTR | 001 | 0001 | 0945 | |
| #HISTS | 001 | 0008 | 0951 | |
| #HISTV | 001 | 000F | 0953 | |
| #HSEND | 001 | 0007 | 0949 | 1665 |
| #HSENT | 001 | 0001 | 0942 | |
| #IOSDR | 001 | 0019 | 0969 | |
| #MVSDR | 001 | 000D | 0966 | |
| #NEROV | 001 | 009C | 0960 | |
| #OBRAD | 001 | 001D | 0962 | |
| #PKCNT | 001 | 0002 | 0927 | |
| #PKMRW | 001 | 002B | 0928 | |
| #PKRDD | 001 | 0003 | 0925 | |
| #PKRTD | 001 | 0003 | 0924 | |
| #PKRTL | 001 | 0004 | 0931 | |
| #PKVRD | 001 | 000B | 0929 | |
| #PKVWD | 001 | 0007 | 0930 | |
| #PKWTD | 001 | 0001 | 0926 | |
| #PTFDA | 001 | 00DC | 0980 | |
| #RDWTL | 001 | 0004 | 0932 | |
| #SDRDK | 001 | 0011 | 0968 | |
| #VLSDR | 001 | 000C | 0964 | |
| #VLTBE | 001 | 0008 | 0919 | |
| #VOLF1 | 001 | 0009 | 0972 | |
| #VOLNG | 001 | 0006 | 0917 | 0919 0941 |
| #VOLOC | 001 | 0005 | 0918 | |
| #VOLR1 | 001 | 0008 | 0973 | |
| #VTCF1 | 001 | 0025 | 0976 | |
| #VTCF2 | 001 | 0027 | 0978 | |
| #VTCR1 | 001 | 0024 | 0975 | |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 18

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|--------|-----|-------|------|--|
| #VTCR2 | 001 | 0026 | 0977 | |
| @ALTFI | 001 | 0001 | 0251 | |
| @ARR | 001 | 0008 | 0016 | 1620 1639 |
| @ASIGN | 001 | 007C | 0071 | |
| @ASTER | 001 | 005C | 0069 | |
| @BCRDL | 001 | 0050 | 0088 | |
| @BE | 001 | 0081 | 0043 | |
| @BF | 001 | 0090 | 0052 | |
| @BH | 001 | 0084 | 0041 | |
| @BKSPC | 001 | 0010 | 0348 | |
| @BL | 001 | 0082 | 0042 | |
| @BLANK | 001 | 0040 | 0065 | 1626 |
| @BM | 001 | 0082 | 0054 | |
| @BNE | 001 | 0001 | 0046 | |
| @BNH | 001 | 0004 | 0044 | |
| @BNL | 001 | 0002 | 0045 | |
| @BNM | 001 | 0002 | 0057 | |
| @BNOL | 001 | 0020 | 0050 | |
| @BNOZ | 001 | 0008 | 0049 | |
| @BNP | 001 | 0004 | 0056 | |
| @BNZ | 001 | 0001 | 0058 | |
| @BOL | 001 | 00A0 | 0048 | |
| @BOZ | 001 | 0088 | 0047 | |
| @BP | 001 | 0084 | 0053 | |
| @BR | 001 | 0001 | 0013 | 1614 1618 1619* 1620 1625 1628 1629 1631* 1637 1638* 1639 1643 1644 1645 1646 1647 1652 1652 1653 1656 1660 1661 1662 1664 1665 1666 1668 1677 1677 1678 1679 1680 1681 1682 1682 1684 1689 |
| @BT | 001 | 0010 | 0051 | |
| @BZ | 001 | 0081 | 0055 | |
| @BZ37B | 001 | 00F2 | 0361 | 1625 1643 |
| @B1 | 001 | 0001 | 0063 | |
| @CADDR | 001 | 0002 | 0142 | |
| @CARDL | 001 | 0060 | 0087 | 0830 1647 |
| @CC37B | 001 | 0000 | 0357 | 1630 1695 |
| @CD37B | 001 | 00F0 | 0375 | |
| @CHARA | 001 | 00C1 | 0072 | |
| @CHARF | 001 | 00C6 | 0073 | |
| @CHARR | 001 | 00D9 | 0074 | |
| @CHARZ | 001 | 00E9 | 0075 | |
| @CKY01 | 001 | 0001 | 0309 | |
| @CKY02 | 001 | 0002 | 0310 | |
| @CKY03 | 001 | 0003 | 0311 | |
| @CKY04 | 001 | 0004 | 0312 | |
| @CKY05 | 001 | 0005 | 0313 | |
| @CKY06 | 001 | 0006 | 0314 | |
| @CKY07 | 001 | 0007 | 0315 | |
| @CKY08 | 001 | 0008 | 0316 | |
| @CKY09 | 001 | 0009 | 0317 | |
| @CKY10 | 001 | 000A | 0318 | |
| @CKY11 | 001 | 000B | 0319 | |
| @CKY12 | 001 | 000C | 0320 | |
| @CKY13 | 001 | 000D | 0321 | |
| @CKY14 | 001 | 000E | 0322 | |
| @CKY15 | 001 | 000F | 0323 | |
| @CKY16 | 001 | 0010 | 0324 | |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 19

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|--------|-----|-------|------|------------|
| @CLOFF | 001 | 0010 | 0094 | |
| @CLON | 001 | 0011 | 0093 | |
| @CMLON | 001 | 0001 | 0327 | |
| @CMOFF | 001 | 0000 | 0326 | |
| @COMMA | 001 | 006B | 0066 | |
| @CPLUS | 001 | 004E | 0079 | |
| @CP37B | 001 | 0004 | 0388 | 1678 |
| @CRERR | 001 | 0090 | 0343 | |
| @CRPRY | 001 | 0004 | 0347 | |
| @CRTDS | 001 | 0092 | 0340 | |
| @CRTQ | 001 | 0090 | 0342 | |
| @CURSR | 001 | 0040 | 0344 | |
| @DADDR | 001 | 0002 | 0140 | |
| @DBFR1 | 001 | 0004 | 0129 | |
| @DBFR2 | 001 | 0005 | 0130 | |
| @DBUSY | 001 | 0002 | 0245 | |
| @DCALK | 001 | 0001 | 0081 | |
| @DCBCY | 001 | 0009 | 0115 | |
| @DCBT1 | 001 | 0050 | 0117 | |
| @DCFLN | 001 | 0004 | 0229 | |
| @DCNT | 001 | 0003 | 0128 | |
| @DCRID | 001 | 0001 | 0243 | |
| @DCST1 | 001 | 0040 | 0116 | |
| @DCTRL | 001 | 0000 | 0125 | |
| @DCTRW | 001 | 0000 | 0242 | |
| @DCWID | 001 | 0001 | 0239 | |
| @DCYL | 001 | 0001 | 0126 | |
| @DCYMV | 001 | 0001 | 0230 | |
| @DD2 | 001 | 0003 | 0030 | |
| @DEFLG | 001 | 0002 | 0252 | |
| @DERCE | 001 | 0020 | 0282 | |
| @DERD2 | 001 | 0008 | 0274 | |
| @DEREQ | 001 | 0010 | 0273 | |
| @DERIN | 001 | 0040 | 0271 | |
| @DERMA | 001 | 0020 | 0272 | |
| @DERNR | 001 | 0004 | 0275 | |
| @DERR | 001 | 0000 | 0246 | |
| @DERSC | 001 | 0001 | 0277 | |
| @DERTC | 001 | 0002 | 0276 | |
| @DFCR | 001 | 0006 | 0232 | |
| @DFDR | 001 | 0004 | 0233 | |
| @DGET | 001 | 0001 | 0134 | |
| @DHARD | 001 | 0000 | 0260 | |
| @DLNCT | 001 | 000F | 0346 | |
| @DLNLG | 001 | 0040 | 0345 | |
| @DOLAR | 001 | 005B | 0068 | |
| @DOP2 | 001 | 0004 | 0028 | |
| @DPLNG | 001 | 0006 | 0132 | |
| @DPOS | 001 | 0000 | 0133 | |
| @DPUT | 001 | 0002 | 0135 | |
| @DREAD | 001 | 0001 | 0236 | |
| @DSAD | 001 | 0002 | 0127 | |
| @DSBCY | 001 | 0004 | 0106 | |
| @DSBSY | 001 | 0092 | 0341 | |
| @DSCS1 | 001 | 0000 | 0107 | |
| @DSEEK | 001 | 0000 | 0235 | |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 20

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|---------|-----|-------|------|-------------|
| @DSIVF | 001 | 0003 | 0138 | |
| @DSPIN | 001 | 0002 | 0131 | |
| @DTRSZ | 001 | 0018 | 0085 | |
| @DUNSF | 001 | 0080 | 0278 | |
| @DVBCY | 001 | 0007 | 0108 | |
| @DVERY | 001 | 0003 | 0241 | |
| @DVERFY | 001 | 0031 | 0136 | |
| @DVST1 | 001 | 0002 | 0247 | |
| @DVST2 | 001 | 0003 | 0248 | |
| @DWAIT | 001 | 00FF | 0137 | |
| @DWBCY | 001 | 0005 | 0103 | |
| @DWBIT | 001 | 0002 | 0237 | |
| @DWSIZ | 001 | 00C0 | 0105 | |
| @DWTB1 | 001 | 0003 | 0104 | |
| @DZERO | 001 | 00F0 | 0064 | |
| @D1 | 001 | 0002 | 0026 | 1677* 1682* |
| @EOF | 001 | 001C | 0077 | |
| @EOFTC | 001 | 0075 | 0162 | |
| @EOS | 001 | 001E | 0076 | |
| @ER37B | 001 | 00F0 | 0362 | 1628 1644 |
| @FDDBC | 001 | 0000 | 0195 | |
| @FDE1 | 001 | 000C | 0200 | |
| @FDFNA | 001 | 000B | 0198 | |
| @FDHLN | 001 | 0002 | 0208 | |
| @FDLNC | 001 | 0002 | 0193 | |
| @FDNSC | 001 | 0003 | 0210 | |
| @FDSD | 001 | 0000 | 0206 | |
| @FLACE | 001 | 0009 | 0197 | |
| @FLDBC | 001 | 0001 | 0196 | |
| @FLDIN | 001 | 0012 | 0334 | |
| @FLENT | 001 | 0004 | 0201 | |
| @FLFNA | 001 | 0002 | 0199 | |
| @FLHLN | 001 | 0002 | 0209 | |
| @FLLNC | 001 | 0002 | 0194 | |
| @FLNSC | 001 | 0001 | 0211 | |
| @FLSD | 001 | 0001 | 0207 | |
| @HCEPK | 001 | 003C | 1478 | |
| @HCOPS | 001 | 001C | 1485 | |
| @HCOPY | 001 | 081C | 1480 | |
| @HCRHE | 001 | 7858 | 1501 | |
| @HDNRY | 001 | 1008 | 1466 | 1688 |
| @HDRHE | 001 | 7854 | 1499 | |
| @HDRLN | 001 | 0007 | 0092 | 0858 |
| @HDRV1 | 001 | 7840 | 1491 | |
| @HDRV2 | 001 | 7844 | 1493 | |
| @HDTRD | 001 | 1040 | 1462 | 1702 |
| @HDTRJ | 001 | 1010 | 1464 | 1701 |
| @HERPG | 001 | 087C | 1468 | |
| @HFEHT | 001 | 0804 | 1483 | |
| @HIPLE | 001 | 006C | 1475 | |
| @HKBER | 001 | 2040 | 1458 | |
| @HKBHE | 001 | 7848 | 1495 | |
| @HLOGE | 001 | 1844 | 1470 | |
| @HPRER | 001 | 0070 | 1460 | |
| @HPRHE | 001 | 784C | 1497 | |
| @HSTAD | 001 | 0009 | 0258 | |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 21

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|--------|-----|-------|------|-------------------------------|
| @HSTEN | 001 | 0007 | 0257 | |
| @HSTPE | 001 | 0006 | 0256 | |
| @HSTQR | 001 | 0001 | 0254 | |
| @HSTSN | 001 | 0005 | 0255 | |
| @HSTVI | 001 | 000F | 0259 | |
| @HUNSF | 001 | 1850 | 1473 | |
| @IAR | 001 | 0010 | 0017 | |
| @ID37B | 001 | 0040 | 0398 | |
| @INDEX | 001 | 0001 | 0156 | 0157 |
| @INST3 | 001 | 0003 | 0032 | |
| @INST4 | 001 | 0004 | 0033 | |
| @INST5 | 001 | 0005 | 0034 | |
| @INST6 | 001 | 0006 | 0035 | |
| @IP37B | 001 | 00C0 | 0397 | |
| @I1IAR | 001 | 00C0 | 0020 | |
| @KCMDK | 001 | 0020 | 0308 | |
| @KELOK | 001 | 001B | 0307 | |
| @KENAB | 001 | 001E | 0305 | |
| @KEXIT | 001 | 001F | 0306 | |
| @KEYBD | 001 | 0010 | 0325 | |
| @KFUNK | 001 | 0010 | 0328 | |
| @KHARD | 001 | 0011 | 0333 | |
| @KLEAR | 001 | 000D | 0329 | |
| @LINSZ | 001 | 00F4 | 0084 | 0832 1627 |
| @LO37B | 001 | 00F0 | 0366 | 1629* |
| @MAPEN | 001 | 0005 | 0089 | |
| @MINCR | 001 | 2000 | 0083 | |
| @MINUS | 001 | 0060 | 0080 | |
| @NOP | 001 | 0080 | 0040 | |
| @NORFL | 001 | 0000 | 0253 | |
| @NTRDY | 001 | 00A0 | 0390 | 1661 |
| @NUMBR | 001 | 007B | 0070 | |
| @OPD2 | 001 | 0004 | 0029 | |
| @OP1 | 001 | 0003 | 0027 | 1618* 1620* 1637* 1639* 1645* |
| @OP2 | 001 | 0005 | 0031 | |
| @OVRUN | 001 | 0004 | 0283 | |
| @PBUSY | 001 | 00E2 | 0295 | |
| @PCAR | 001 | 00E6 | 0292 | |
| @PCNT | 001 | 0003 | 0227 | |
| @PCTRL | 001 | 0000 | 0149 | |
| @PCYL | 001 | 0001 | 0225 | |
| @PC37B | 001 | 00F2 | 0382 | |
| @PDAR | 001 | 00E4 | 0291 | |
| @PDATA | 001 | 0003 | 0151 | |
| @PD37B | 001 | 0080 | 0396 | |
| @PERR | 001 | 00E0 | 0298 | |
| @PFLAG | 001 | 0000 | 0224 | |
| @PFORM | 001 | 00E1 | 0296 | |
| @PGCSZ | 001 | 0020 | 0082 | 0083 |
| @PLITE | 001 | 00E2 | 0297 | |
| @PLNGH | 001 | 0004 | 0288 | |
| @PMGCK | 001 | 0020 | 0299 | |
| @PN37B | 001 | 00F0 | 0381 | |
| @PPLNG | 001 | 0004 | 0148 | |
| @PRCNT | 001 | 0001 | 0150 | |
| @PRETR | 001 | 00C0 | 0154 | |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 22

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|---------|-----|-------|------|------------|
| @PRINT | 001 | 0040 | 0152 | 0154 |
| @PRITY | 001 | 0080 | 0332 | |
| @PSAD | 001 | 0002 | 0226 | |
| @PSIOQ | 001 | 00E0 | 0294 | |
| @PSIOR | 001 | 0000 | 0293 | |
| @PSNSQ | 001 | 00E2 | 0300 | |
| @PSR | 001 | 0004 | 0015 | |
| @PWAIT | 001 | 00FF | 0158 | |
| @P1IAR | 001 | 0020 | 0018 | |
| @P2IAR | 001 | 0040 | 0019 | |
| @Q | 001 | 0001 | 0024 | |
| @RD37B | 001 | 00F1 | 0376 | 1630 1694 |
| @REGL | 001 | 0002 | 0012 | |
| @RETRN | 001 | 0080 | 0153 | 0154 |
| @RLDWN | 001 | 004F | 0159 | |
| @RTCNT | 001 | 0003 | 0290 | |
| @RTRNC | 001 | 0080 | 0161 | |
| @RT37B | 001 | 0005 | 0389 | 1667 |
| @SBLN | 001 | 0005 | 0170 | |
| @SBLNL | 001 | 0002 | 0184 | |
| @SCTSZ | 001 | 0100 | 0100 | |
| @SDFLN | 001 | 0007 | 0090 | |
| @SDF0 | 001 | 0000 | 0166 | |
| @SDF1 | 001 | 0001 | 0167 | |
| @SDF2 | 001 | 0002 | 0168 | |
| @SDF3 | 001 | 0003 | 0169 | |
| @SECCY | 001 | 0030 | 0086 | |
| @SIST | 001 | 0001 | 0181 | |
| @SKCTL | 001 | 0000 | 0240 | |
| @SLASH | 001 | 0061 | 0067 | |
| @SLAST | 001 | 0002 | 0183 | |
| @SMIDL | 001 | 0003 | 0182 | |
| @SNSB0 | 001 | 0000 | 0264 | |
| @SNSB1 | 001 | 0001 | 0265 | |
| @SNSB2 | 001 | 0002 | 0266 | |
| @SNSB3 | 001 | 0003 | 0267 | |
| @SNNULL | 001 | 0080 | 0173 | |
| @SN37B | 001 | 00F2 | 0370 | 1660 |
| @SONLY | 001 | 0000 | 0180 | |
| @SPINA | 001 | 00A0 | 0249 | |
| @SPINB | 001 | 00B0 | 0250 | |
| @STEXT | 001 | 0007 | 0172 | |
| @STYPE | 001 | 0006 | 0171 | |
| @SYCNT | 001 | 0002 | 0289 | |
| @TBCNT | 001 | 0000 | 0160 | |
| @TBLEF | 001 | 0010 | 0155 | 0157 |
| @TBLIX | 001 | 0011 | 0157 | |
| @TJ37B | 001 | 0040 | 0387 | 1680 |
| @TYPAM | 001 | 0002 | 0331 | |
| @TYPO | 001 | 001C | 0330 | |
| @UCB | 001 | 0087 | 0039 | |
| @UPARW | 001 | 005A | 0078 | |
| @VADDR | 001 | 0002 | 0141 | |
| @VENTA | 001 | 0056 | 0113 | |
| @VMDDV | 001 | 00FE | 0114 | |
| @VMFD1 | 001 | 0000 | 0109 | |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 23

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|--------|-----|-------|------|---------------------------------------|
| @VMFD2 | 001 | 0001 | 0110 | |
| @VMRS3 | 001 | 0002 | 0112 | |
| @VMTRL | 001 | 0001 | 0111 | |
| @VOLID | 001 | 0006 | 0091 | |
| @VQ | 001 | 0001 | 0025 | |
| @WA37B | 001 | 00FF | 0395 | |
| @WSFIT | 001 | 0500 | 0101 | |
| @WSTBL | 001 | 0503 | 0102 | |
| @XR | 001 | 0002 | 0014 | 1645 1646* 1648 1650 1651 1651* 1654* |
| @ZERO | 001 | 0000 | 0062 | 1672 |
| @4K | 001 | 0010 | 0349 | |
| CACLIN | 001 | 0607 | 1615 | |
| CRDBSY | 001 | 08C0 | 1636 | |
| DRBASE | 001 | 0890 | 1616 | 1614 1619 1638 |
| DRCNTR | 001 | 0951 | 1698 | 1647* 1652* |
| DREADN | 001 | 0890 | 1617 | 1634 1705 |
| DREBRC | 001 | 00D0 | 1704 | 1648 |
| DRECPH | 002 | 0958 | 1702 | 1677 |
| DRETJH | 002 | 0956 | 1701 | 1682 |
| DREUSC | 001 | 006D | 1703 | 1650 |
| DRE600 | 003 | 0945 | 1686 | 1628 |
| DRLINB | 002 | 0954 | 1700 | 1629 1646 |
| DRONES | 001 | 0952 | 1699 | 1652 1666 |
| DRRDHS | 001 | 094B | 1693 | 1665 |
| DRSIZE | 001 | 00C9 | 1705 | |
| DRSNSE | 002 | 094E | 1696 | 1660* 1661 1678 1680 |
| DR0200 | 004 | 0890 | 1618 | |
| DR0400 | 003 | 08AC | 1628 | 1689 |
| DR0500 | 003 | 08AF | 1629 | 1684 |
| DR0600 | 004 | 08B5 | 1631 | 1618* 1625 1637* 1643 1656 |
| DR0700 | 004 | 08B9 | 1632 | 1620* 1639* |
| DR1000 | 004 | 08C4 | 1638 | |
| DR1200 | 003 | 08CB | 1643 | 1662 |
| DR1250 | 003 | 08D1 | 1645 | 1681 |
| DR1260 | 003 | 08DA | 1648 | 1653 |
| DR1270 | 003 | 08E3 | 1651 | 1649 |
| DR1280 | 004 | 08ED | 1654 | 1645* |
| DR2000 | 003 | 08F8 | 1660 | 1644 |
| DR2200 | 004 | 0901 | 1663 | |
| DR2400 | 005 | 090D | 1666 | 1664 |
| DR3000 | 004 | 0927 | 1676 | 1668 |
| DR4000 | 003 | 093F | 1683 | 1677* 1679 1682* |

TOTAL STATEMENTS IN ERROR IN THIS ASSEMBLY = 0

OL105 I THE CODE LENGTH OF #DREAD IS 2393 DECIMAL.
 OL103 I TOTAL NUMBER OF LIBRARY SECTORS REQUIRED IS 2
 NAME-#DREAD,PACK-R1R1R1,UNIT-R1,RETAIN-P,LIBRARY-R,CATEGORY-000

| START ADDRESS | CATEGORY | NAME AND ENTRY | CODE LENGTH HEXADECIMAL | DECIMAL |
|---------------|----------|----------------|-------------------------|---------|
|---------------|----------|----------------|-------------------------|---------|

| | | | | |
|------|---|--------|------|------|
| 0C00 | 0 | #DREAD | 0959 | 2393 |
|------|---|--------|------|------|

```

OL100 I THE TOTAL CORE USED BY #DREAD IS 2393 DECIMAL.
OL101 I THE START CONTROL ADDRESS OF THIS MODULE IS 0C00.
OL104 I TOTAL NUMBER OF LIBRARY SECTORS REQUIRED IS 10
      NAME-#DREAD,PACK-R1R1R1,UNIT-R1,RETAIN-P,LIBRARY-O
      2304 *          PATCH AREA 1
  
```

```

      2305 *****
      2306 *
      2307 * CALCULATE AREA LEFT IN THIS SECTOR
      2308 *
  
```

```

      0E00 0DDE 2309 $$$L1 EQU *          START OF PATCH AREA 1
      2310          ORG *,256,0        SET LOC CNTR TO NEXT SECTOR
  
```

```

      0DDE 0E00 2311 $$$T1 EQU *        DEFINE ADDR OF SCTR BNDRY
      2312          ORG $$$L1          SET LOC CNTR TO START OF
  
```

```

      2313 *          * PATCH AREA
  
```

```

      0DDE 0DFF 2314 $$$$1 DS CL($$$T1-$$$L1) PATCH AREA
  
```

```

      2315 *****
      2316 *** END OF EXPANSION ***
  
```

```

      0E00 2317 KWIBUF EQU *
      2318          PRINT ON
      FFFF 2319          END
  
```

TOTAL STATEMENTS IN ERROR IN THIS ASSEMBLY = 0

CROSS REFERENCE

VER 15, MOD 00 30/05/22 PAGE 17

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|-------------|-----|-------|------|-------------------------------|
| \$\$\$\$\$ | 001 | 0C00 | 1918 | |
| \$\$\$\$\$1 | 034 | 0DFF | 2314 | |
| \$\$\$\$L1 | 001 | 0DDE | 2309 | 2312 2314 |
| \$\$\$\$T1 | 001 | 0E00 | 2311 | 2314 |
| \$\$\$CMD | 001 | 0020 | 0659 | |
| \$\$\$DAT | 001 | 0040 | 0658 | |
| \$\$\$EPL | 001 | 0091 | 0655 | |
| \$\$\$ERN | 001 | 0080 | 0709 | |
| \$\$\$FUN | 001 | 0010 | 0660 | |
| \$\$\$NLN | 001 | 00A0 | 0705 | |
| \$\$\$STD | 001 | 0081 | 0654 | |
| \$\$BNLN | 001 | 0605 | 0635 | 0637 |
| \$\$CDBS | 001 | 08C0 | 0685 | |
| \$\$CDND | 001 | 0666 | 0644 | |
| \$\$CDRD | 001 | 0890 | 0683 | 0685 |
| \$\$CKEY | 001 | 0603 | 0633 | |
| \$\$CKFF | 001 | 0B3D | 0665 | |
| \$\$COFF | 001 | 0B44 | 0664 | |
| \$\$CSNS | 001 | 209C | 0694 | |
| \$\$DATB | 001 | 0BBF | 0666 | |
| \$\$EOSA | 001 | 0AFE | 0663 | |
| \$\$ERSK | 001 | 1C00 | 0704 | |
| \$\$FITS | 001 | 1D00 | 0712 | |
| \$\$FLIB | 001 | 06FF | 0711 | |
| \$\$ILEN | 001 | 0601 | 0629 | 0631 0635 |
| \$\$ILHD | 001 | 0600 | 0627 | 0629 |
| \$\$INLN | 001 | 0607 | 0642 | 0644 0646 |
| \$\$INND | 001 | 06FA | 0646 | |
| \$\$KBDT | 001 | 09E1 | 0653 | 0657 |
| \$\$KBSN | 001 | 09E2 | 0657 | 0662 |
| \$\$KLD1 | 001 | 0600 | 0717 | |
| \$\$KLD2 | 001 | 0700 | 0719 | |
| \$\$KLD3 | 001 | 0C00 | 0721 | 1812 |
| \$\$LPOS | 001 | 09EB | 0662 | |
| \$\$PCNT | 001 | 07E9 | 0678 | |
| \$\$PLYN | 001 | 2004 | 0692 | |
| \$\$PRES | 001 | 0890 | 0651 | 0653 0663 0664 0665 0666 0683 |
| \$\$PRFL | 001 | 2143 | 0696 | |
| \$\$PRNT | 001 | 0707 | 0672 | 0673 0677 0678 2009 2016 2019 |
| \$\$PRTN | 001 | 0782 | 0673 | |
| \$\$PSIO | 001 | 07CE | 0677 | |
| \$\$PYCD | 001 | 2200 | 0698 | |
| \$\$PYMP | 001 | 2000 | 0690 | 0692 0694 0696 0698 |
| \$\$SLIB | 001 | 1C00 | 0707 | |
| \$\$TPCD | 001 | 0606 | 0637 | 0642 |
| \$\$UPAR | 001 | 0602 | 0631 | 0633 |
| \$\$WSPB | 001 | 1E00 | 0710 | |
| \$\$XIND | 001 | 06FF | 0708 | 0711 |
| \$\$ZERO | 001 | 0000 | 0223 | 0224 0226 0227 0228 0232 0690 |
| \$ABORT | 001 | 0010 | 0336 | |
| \$BASIC | 001 | 0080 | 0394 | |
| \$BIGCD | 001 | 0080 | 0470 | |
| \$BLDPL | 001 | 0579 | 0603 | 0605 |
| \$BLNOE | 001 | 0569 | 0593 | |
| \$BLOAD | 001 | 0522 | 0584 | 0586 0589 0602 0603 |
| \$BLRTN | 001 | 0550 | 0592 | 0593 |

CROSS REFERENCE

VER 15, MOD 00 30/05/22 PAGE 18

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|----------|-----|-------|------|------------------------------------|
| \$BRSV | 001 | 03C5 | 0281 | 0282 |
| \$BSADR | 001 | 0587 | 0608 | 0610 |
| \$BUFPT | 001 | 03E3 | 0489 | 0490 |
| \$CABLD | 001 | 04B4 | 0562 | 0563 |
| \$CAERK | 001 | 0469 | 0539 | 0542 2048 |
| \$CAERR | 001 | 03CD | 0287 | 0289 2047* 2093* 2276* |
| \$CAIPL | 001 | 049D | 0558 | 0560 |
| \$CALLI | 001 | 0008 | 0479 | |
| \$CARDI | 001 | 0001 | 0250 | |
| \$CARPL | 001 | 04A1 | 0560 | 0562 2022 |
| \$CIENT | 001 | 0483 | 0549 | 0550 |
| \$CIEXT | 001 | 0480 | 0548 | 0549 |
| \$CIMSK | 001 | 0476 | 0545 | 0548 |
| \$CISUS | 001 | 0496 | 0553 | 0558 |
| \$CLBFR | 001 | 0010 | 0437 | |
| \$CMDKY | 001 | 0008 | 0349 | |
| \$CMODE | 001 | 0002 | 0399 | |
| \$CONFIG | 001 | 03DD | 0462 | 0472 1990 |
| \$CRPOS | 001 | 03E2 | 0488 | 0489 |
| \$CRTAD | 001 | 044D | 0527 | 0528 |
| \$CRTAV | 001 | 0002 | 0343 | |
| \$CRTDN | 001 | 0002 | 0367 | |
| \$CRTIN | 001 | 03D3 | 0364 | 0371 |
| \$CRTNO | 001 | 0004 | 0346 | |
| \$CRTPU | 001 | 0004 | 0368 | |
| \$CRTSP | 001 | 0008 | 0369 | |
| \$CRTUP | 001 | 0001 | 0366 | |
| \$CRUSH | 001 | 0080 | 0475 | |
| \$CSDPL | 001 | 050E | 0574 | 0575 |
| \$C0001 | 001 | 0464 | 0531 | 0537 |
| \$DATE | 001 | 043A | 0512 | 0513 |
| \$DBGUF | 001 | 03E0 | 0474 | 0483 |
| \$DBLOK | 001 | 0001 | 0424 | |
| \$DFDET | 001 | 03E8 | 0495 | 0496 |
| \$DISKN | 001 | 0025 | 0226 | |
| \$DKERR | 001 | 0008 | 0405 | |
| \$DKSIZ | 001 | 03D7 | 0449 | 0457 0498 |
| \$DK100 | 001 | 0001 | 0451 | |
| \$DK200 | 001 | 0002 | 0452 | |
| \$DK400 | 001 | 0004 | 0453 | |
| \$DK600 | 001 | 0008 | 0454 | |
| \$DK800 | 001 | 0010 | 0455 | |
| \$DPLSV | 001 | 0449 | 0523 | 0525 |
| \$DTNMB | 001 | 0040 | 0270 | |
| \$DTRDR | 001 | 0040 | 0358 | |
| \$ENDNU | 001 | 0600 | 0617 | 0627 0651 0672 0708 0717 0719 0721 |
| \$ERDPL | 001 | 046F | 0542 | 0544 |
| \$ERFIL | 001 | 0040 | 0297 | |
| \$ERHRD | 001 | 0004 | 0429 | |
| \$ERKEY | 001 | 0080 | 0301 | |
| \$ERLOG | 001 | 0345 | 0231 | |
| \$ERMAD | 001 | 0472 | 0544 | 0545 |
| \$ERPND | 001 | 0004 | 0402 | |
| \$ERRCT | 001 | 03CF | 0303 | |
| \$ERRPG | 001 | 03CE | 0291 | |
| \$ERSFL | 001 | 0035 | 0296 | |

CROSS REFERENCE

VER 15, MOD 00 30/05/22 PAGE 19

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|---------|-----|-------|------|-----------------|
| \$ERSTK | 001 | 0030 | 0294 | |
| \$ER050 | 001 | 0363 | 0232 | |
| \$ER1N2 | 001 | 0050 | 0299 | |
| \$EXADR | 001 | 0517 | 0577 | 0579 |
| \$EXCMD | 001 | 0001 | 0331 | |
| \$EXFTR | 001 | 043B | 0513 | 0518 |
| \$FCIND | 001 | 0010 | 0409 | |
| \$FDIND | 001 | 0040 | 0416 | |
| \$FEARR | 001 | 0004 | 0224 | |
| \$FEMAP | 001 | 0588 | 0610 | 0611 |
| \$FILIB | 001 | 03DA | 0460 | 0461 |
| \$FITIN | 001 | 0010 | 0385 | |
| \$FUIND | 001 | 0020 | 0414 | |
| \$GUFIO | 001 | 0583 | 0607 | 0608 |
| \$GUFIR | 001 | 0008 | 0259 | |
| \$HISTE | 001 | 042E | 0510 | 0511 |
| \$HIST1 | 001 | 0435 | 0511 | 0512 |
| \$HRDER | 001 | 0020 | 0355 | |
| \$INDR1 | 001 | 03D4 | 0371 | 0397 |
| \$INDR2 | 001 | 03D5 | 0397 | 0422 |
| \$INDR3 | 001 | 03D6 | 0422 | 0449 |
| \$INLNO | 001 | 03CF | 0289 | 0291 0303 0310 |
| \$INRPT | 001 | 0020 | 0267 | |
| \$IOIND | 001 | 03D2 | 0338 | 0364 |
| \$IOPGS | 001 | 0010 | 0478 | |
| \$IOYES | 001 | 0002 | 0253 | 2018 |
| \$IPLDV | 001 | 05FF | 0614 | 0617 |
| \$IRKEY | 001 | 0020 | 0477 | |
| \$KEYBD | 001 | 03E1 | 0483 | 0488 |
| \$KEYCD | 001 | 03C3 | 0247 | 0281 2018* |
| \$KEYDT | 001 | 0040 | 0391 | |
| \$KE090 | 001 | 00DE | 0227 | |
| \$KE130 | 001 | 01D5 | 0228 | |
| \$KYBSY | 001 | 0010 | 0264 | |
| \$LDRTN | 001 | 0571 | 0602 | |
| \$LEVEL | 001 | 03DF | 0472 | 0474 |
| \$LIST | 001 | 0002 | 0426 | |
| \$LMRGN | 001 | 03C1 | 0242 | 0244 1929 2014* |
| \$LNPTR | 001 | 0080 | 0361 | |
| \$LOADB | 001 | 054A | 0586 | |
| \$LOADR | 001 | 051A | 0579 | 0582 |
| \$LPRIO | 001 | 03EA | 0496 | |
| \$LPROS | 001 | 03E5 | 0491 | 0493 |
| \$LPRP3 | 001 | 03E4 | 0490 | 0491 |
| \$MOUNT | 001 | 0020 | 0440 | |
| \$MPDWN | 001 | 0001 | 0340 | |
| \$NEXTB | 001 | 03E6 | 0493 | 0494 |
| \$NEXTL | 001 | 03E7 | 0494 | 0495 |
| \$NOENB | 001 | 0008 | 0432 | |
| \$NOLST | 001 | 0004 | 0256 | |
| \$NUCBS | 001 | 03C0 | 0239 | 0240 |
| \$NWRKF | 001 | 0080 | 0445 | |
| \$NWRKR | 001 | 0040 | 0442 | |
| \$PASWD | 001 | 042D | 0509 | 0510 |
| \$PAUSD | 001 | 04BA | 0563 | 0565 |
| \$PAUSE | 001 | 0002 | 0333 | |

CROSS REFERENCE

VER 15, MOD 00 30/05/22 PAGE 20

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|---------|-----|-------|------|------------------|
| \$PGMDT | 001 | 0020 | 0388 | |
| \$PGMST | 001 | 0010 | 0352 | |
| \$PKERT | 001 | 0419 | 0507 | 0509 |
| \$PLST1 | 001 | 0454 | 0528 | 0529 |
| \$PLST2 | 001 | 045B | 0529 | 0530 |
| \$PLST3 | 001 | 0462 | 0530 | 0531 |
| \$PRDEV | 001 | 044B | 0525 | 0527 |
| \$PRESN | 001 | 0002 | 0376 | |
| \$PROCI | 001 | 0001 | 0373 | |
| \$PRPOS | 001 | 03C2 | 0244 | 0247 2001 2005 |
| \$PSDBR | 001 | 04FA | 0568 | |
| \$PSDXR | 001 | 04F2 | 0567 | 0568 |
| \$PSTEP | 001 | 0004 | 0334 | |
| \$PSTMT | 001 | 0008 | 0335 | |
| \$PTCH1 | 001 | 03F5 | 0498 | 0502 |
| \$READY | 001 | 0080 | 0418 | |
| \$REORD | 001 | 0040 | 0476 | |
| \$RLOAD | 001 | 051E | 0582 | 0584 |
| \$RMRGN | 001 | 03C0 | 0240 | 0242 2008* 2021* |
| \$RSTR | 001 | 04D6 | 0565 | 0567 0569 0574 |
| \$RUNIT | 001 | 0001 | 0312 | |
| \$SFAID | 001 | 050D | 0570 | |
| \$SPRNT | 001 | 0465 | 0537 | 0539 |
| \$SRTRN | 001 | 04FE | 0569 | 0570 |
| \$STEPT | 001 | 0002 | 0313 | |
| \$SWPCR | 001 | 0511 | 0575 | 0577 |
| \$TABLN | 001 | 03CB | 0284 | 0287 |
| \$TFLOW | 001 | 0008 | 0319 | |
| \$TRACE | 001 | 0004 | 0314 | |
| \$TRALL | 001 | 0010 | 0320 | |
| \$TROVR | 001 | 054E | 0589 | 0592 |
| \$TRUNK | 001 | 0080 | 0272 | |
| \$TRVAR | 001 | 0020 | 0321 | |
| \$UNMSK | 001 | 048D | 0550 | 0553 |
| \$USRDR | 001 | 03DC | 0461 | 0462 |
| \$VMDEF | 001 | 0080 | 0325 | |
| \$VOLF1 | 001 | 03FE | 0504 | 0505 |
| \$VOLF2 | 001 | 040E | 0506 | |
| \$VOLID | 001 | 03F6 | 0502 | 0503 0507 |
| \$VOLR1 | 001 | 03F6 | 0503 | 0504 |
| \$VOLR2 | 001 | 0406 | 0505 | 0506 |
| \$WAITF | 001 | 057F | 0605 | 0607 2020 |
| \$WFDEF | 001 | 0040 | 0519 | |
| \$WFLOK | 001 | 0008 | 0382 | |
| \$WFNME | 001 | 0443 | 0518 | 0523 |
| \$WSIND | 001 | 0004 | 0379 | |
| \$XIND1 | 001 | 03D0 | 0310 | 0329 |
| \$XIND2 | 001 | 03D1 | 0329 | 0338 |
| \$XIND3 | 001 | 03D8 | 0457 | 0460 |
| \$XPREC | 001 | 0040 | 0322 | |
| \$XRSAV | 001 | 03C7 | 0282 | 0284 1931 |
| \$ZTRAD | 001 | 05A2 | 0611 | |
| \$12K | 001 | 0004 | 0466 | |
| \$16CKY | 001 | 0008 | 0468 | |
| \$16K | 001 | 0002 | 0465 | |
| \$22IMP | 001 | 0001 | 0463 | 1990 |

CROSS REFERENCE

VER 15, MOD 00 30/05/22 PAGE 21

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|--------|-----|-------|------|------------|
| ###BL | 001 | 0000 | 1672 | |
| ###CK | 001 | 0000 | 1800 | |
| ###CN | 001 | 0000 | 1768 | |
| ###CO | 001 | 0000 | 1560 | |
| ###CS | 001 | 0000 | 1620 | |
| ###DR | 001 | 0000 | 1364 | |
| ###ER | 001 | 0000 | 1564 | |
| ###FS | 001 | 0000 | 1660 | |
| ###IN | 001 | 0000 | 1804 | |
| ###PW | 001 | 0000 | 1808 | |
| ###RS | 001 | 0000 | 1640 | |
| ###SA | 001 | 0000 | 1628 | |
| ###SS | 001 | 0000 | 1624 | |
| ###VU | 001 | 0600 | 1584 | |
| ###0T | 001 | 0700 | 1356 | |
| ###1T | 001 | 0000 | 1360 | |
| ###BCO | 001 | 0600 | 1372 | |
| ###BOV | 001 | 0800 | 1644 | |
| ###DPR | 001 | 0700 | 1380 | |
| ###DRE | 001 | 0889 | 1396 | |
| ###DSP | 001 | 2800 | 1416 | |
| ###ECM | 001 | 0C00 | 1676 | |
| ###EFK | 001 | 0C00 | 1696 | |
| ###ERR | 001 | 0C00 | 1668 | |
| ###EXM | 001 | 0C00 | 1556 | |
| ###FIL | 001 | 0E00 | 1636 | |
| ###FIS | 001 | 0E00 | 1632 | |
| ###FML | 001 | 0200 | 1764 | |
| ###FMS | 001 | 0200 | 1604 | |
| ###GRA | 001 | 0889 | 1528 | |
| ###GUF | 001 | 0C00 | 1664 | |
| ###INL | 001 | 0600 | 1744 | |
| ###INS | 001 | 0600 | 1368 | |
| ###KAL | 001 | 0C00 | 1532 | |
| ###KCA | 001 | 0C00 | 1748 | |
| ###KCH | 001 | 0C00 | 1500 | |
| ###KCN | 001 | 0C00 | 1616 | |
| ###KCT | 001 | 0C00 | 1468 | |
| ###KDE | 001 | 0C00 | 1464 | |
| ###KDI | 001 | 0D00 | 1544 | |
| ###KDN | 001 | 0C00 | 1452 | |
| ###KDO | 001 | 0E00 | 1548 | |
| ###KED | 001 | 0C00 | 1388 | |
| ###KEN | 001 | 0C00 | 1392 | |
| ###KEX | 001 | 0C00 | 1412 | |
| ###KGO | 001 | 0C00 | 1384 | |
| ###KHE | 001 | 0C00 | 1568 | |
| ###KKE | 001 | 0C00 | 1796 | |
| ###KLI | 001 | 0C00 | 1472 | |
| ###KLL | 001 | 0920 | 1772 | |
| ###KLO | 001 | 0C00 | 1476 | |
| ###KME | 001 | 0D00 | 1456 | |
| ###KMO | 001 | 0C00 | 1400 | |
| ###KNA | 001 | 0C00 | 1512 | |
| ###KOV | 001 | 0E00 | 1432 | |
| ###KPA | 001 | 0C00 | 1408 | |

CROSS REFERENCE

VER 15, MOD 00 30/05/22 PAGE 22

| SYMBOL | LEN | VALUE | DEFN |
|--------|-----|-------|------|
| ###KPO | 001 | 0C00 | 1496 |
| ###KPR | 001 | 0C00 | 1520 |
| ###KRE | 001 | 0C00 | 1440 |
| ###KRL | 001 | 0700 | 1536 |
| ###KRM | 001 | 0C00 | 1404 |
| ###KRN | 001 | 0700 | 1424 |
| ###KRO | 001 | 0D00 | 1428 |
| ###KRS | 001 | 0C00 | 1752 |
| ###KRU | 001 | 0C00 | 1448 |
| ###KRV | 001 | 0800 | 1540 |
| ###KSA | 001 | 0C00 | 1484 |
| ###KSE | 001 | 0E00 | 1524 |
| ###KSO | 001 | 0C20 | 1576 |
| ###KSS | 001 | 0C00 | 1508 |
| ###KSV | 001 | 0980 | 1504 |
| ###KSY | 001 | 0C00 | 1516 |
| ###KWI | 001 | 0C00 | 1444 |
| ###KWR | 001 | 0C00 | 1436 |
| ###LOA | 001 | 0600 | 1376 |
| ###MIP | 001 | 0C00 | 1572 |
| ###SDS | 001 | 0C00 | 1684 |
| ###SFF | 001 | 0E00 | 1688 |
| ###SFL | 001 | 0F00 | 1680 |
| ###SFO | 001 | 1500 | 1652 |
| ###SFS | 001 | 0C00 | 1648 |
| ###SPA | 001 | 0C00 | 1488 |
| ###SPO | 001 | 0806 | 1492 |
| ###SPS | 001 | 0C00 | 1480 |
| ###STR | 001 | 1600 | 1656 |
| ###TDC | 001 | 1000 | 1460 |
| ###TSY | 001 | 1000 | 1420 |
| ###TVK | 001 | 0FC0 | 1596 |
| ###UAL | 001 | 0C00 | 1612 |
| ###UAT | 001 | 0900 | 1708 |
| ###UCD | 001 | 0900 | 1716 |
| ###UCN | 001 | 0C00 | 1700 |
| ###UCP | 001 | 0700 | 1704 |
| ###UDE | 001 | 0C00 | 1720 |
| ###UDI | 001 | 0C00 | 1724 |
| ###UEX | 001 | 0C00 | 1608 |
| ###UIN | 001 | 0C00 | 1712 |
| ###UPA | 001 | 0C00 | 1692 |
| ###UPO | 001 | 0C00 | 1760 |
| ###UPT | 001 | 0C00 | 1756 |
| ###VCR | 001 | 2000 | 1552 |
| ###VLO | 001 | 0600 | 1588 |
| ###VOD | 001 | 0600 | 1592 |
| ###VVM | 001 | 0000 | 1600 |
| ###VXI | 001 | 0600 | 1580 |
| ###ZDU | 001 | 1100 | 1732 |
| ###ZLB | 001 | 1100 | 1776 |
| ###ZLO | 001 | 1100 | 1736 |
| ###ZLV | 001 | 0F00 | 1792 |
| ###ZL1 | 001 | 0F00 | 1780 |
| ###ZL2 | 001 | 0F00 | 1784 |
| ###ZL3 | 001 | 0C00 | 1788 |

1917

CROSS REFERENCE

VER 15, MOD 00 30/05/22 PAGE 23

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|--------|-----|-------|------|------------|
| ###ZTR | 001 | 1000 | 1728 | |
| ###ZUT | 001 | 0C00 | 1740 | |
| ##BLN | 001 | 18D4 | 1671 | |
| ##CKT | 001 | 2118 | 1799 | |
| ##CNF | 001 | 2000 | 1767 | |
| ##COR | 001 | 0800 | 1559 | |
| ##CSA | 001 | 1000 | 1619 | |
| ##DRT | 001 | 0000 | 1363 | |
| ##ERM | 001 | 0928 | 1563 | |
| ##FSP | 001 | 1880 | 1659 | |
| ##INV | 001 | 212C | 1803 | |
| ##PWR | 001 | 2300 | 1807 | |
| ##RSP | 001 | 1780 | 1639 | |
| ##SAV | 001 | 1180 | 1627 | |
| ##SSA | 001 | 1128 | 1623 | |
| ##VUF | 001 | 0B08 | 1583 | |
| ##0TR | 001 | 0000 | 1355 | |
| ##1TR | 001 | 0080 | 1359 | |
| ##@BL | 001 | 0001 | 1673 | |
| ##@CK | 001 | 0004 | 1801 | |
| ##@CN | 001 | 0001 | 1769 | |
| ##@CO | 001 | 003A | 1561 | |
| ##@CS | 001 | 003A | 1621 | |
| ##@DR | 001 | 0008 | 1365 | |
| ##@ER | 001 | 0032 | 1565 | |
| ##@FS | 001 | 0030 | 1661 | |
| ##@IN | 001 | 003A | 1805 | |
| ##@PW | 001 | 00C0 | 1809 | |
| ##@RS | 001 | 0030 | 1641 | |
| ##@SA | 001 | 0108 | 1629 | |
| ##@SS | 001 | 0001 | 1625 | |
| ##@VU | 001 | 0002 | 1585 | |
| ##@0T | 001 | 0018 | 1357 | |
| ##@1T | 001 | 0018 | 1361 | |
| ##@BCO | 001 | 0018 | 1373 | |
| ##@BOV | 001 | 0018 | 1645 | |
| ##@DPR | 001 | 0005 | 1381 | |
| ##@DRE | 001 | 0001 | 1397 | |
| ##@DSP | 001 | 0004 | 1417 | |
| ##@ECM | 001 | 0006 | 1677 | |
| ##@EFK | 001 | 0002 | 1697 | |
| ##@ERR | 001 | 0003 | 1669 | |
| ##@EXM | 001 | 0003 | 1557 | |
| ##@FIL | 001 | 0009 | 1637 | |
| ##@FIS | 001 | 0009 | 1633 | |
| ##@FML | 001 | 0052 | 1765 | |
| ##@FMS | 001 | 0052 | 1605 | |
| ##@GRA | 001 | 0003 | 1529 | |
| ##@GUF | 001 | 0010 | 1665 | |
| ##@INL | 001 | 0010 | 1745 | |
| ##@INS | 001 | 0010 | 1369 | |
| ##@KAL | 001 | 000F | 1533 | |
| ##@KCA | 001 | 000C | 1749 | |
| ##@KCH | 001 | 000C | 1501 | |
| ##@KCN | 001 | 0010 | 1617 | |
| ##@KCT | 001 | 0009 | 1469 | |

CROSS REFERENCE

VER 15, MOD 00 30/05/22 PAGE 24

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|---------|-----|-------|------|------------|
| #\$@KDE | 001 | 0010 | 1465 | |
| #\$@KDI | 001 | 0005 | 1545 | |
| #\$@KDN | 001 | 0010 | 1453 | |
| #\$@KDO | 001 | 000C | 1549 | |
| #\$@KED | 001 | 000E | 1389 | |
| #\$@KEN | 001 | 0006 | 1393 | |
| #\$@KEX | 001 | 0003 | 1413 | |
| #\$@KGO | 001 | 0002 | 1385 | |
| #\$@KHE | 001 | 000C | 1569 | |
| #\$@KKE | 001 | 0006 | 1797 | |
| #\$@KLI | 001 | 0011 | 1473 | |
| #\$@KLL | 001 | 0001 | 1773 | |
| #\$@KLO | 001 | 0008 | 1477 | |
| #\$@KME | 001 | 0003 | 1457 | |
| #\$@KMO | 001 | 0004 | 1401 | |
| #\$@KNA | 001 | 0008 | 1513 | |
| #\$@KOV | 001 | 0009 | 1433 | |
| #\$@KPA | 001 | 0005 | 1409 | |
| #\$@KPO | 001 | 000D | 1497 | |
| #\$@KPR | 001 | 0009 | 1521 | |
| #\$@KRE | 001 | 0002 | 1441 | |
| #\$@KRL | 001 | 0004 | 1537 | |
| #\$@KRM | 001 | 0003 | 1405 | |
| #\$@KRN | 001 | 0003 | 1425 | |
| #\$@KRO | 001 | 000A | 1429 | |
| #\$@KRS | 001 | 000A | 1753 | |
| #\$@KRU | 001 | 0003 | 1449 | |
| #\$@KRV | 001 | 000D | 1541 | |
| #\$@KSA | 001 | 0011 | 1485 | |
| #\$@KSE | 001 | 0004 | 1525 | |
| #\$@KSO | 001 | 0005 | 1577 | |
| #\$@KSS | 001 | 000B | 1509 | |
| #\$@KSV | 001 | 0002 | 1505 | |
| #\$@KSY | 001 | 000F | 1517 | |
| #\$@KWI | 001 | 0002 | 1445 | |
| #\$@KWR | 001 | 0002 | 1437 | |
| #\$@LOA | 001 | 0013 | 1377 | |
| #\$@MIP | 001 | 000D | 1573 | |
| #\$@SDS | 001 | 0004 | 1685 | |
| #\$@SFF | 001 | 0008 | 1689 | |
| #\$@SFL | 001 | 0005 | 1681 | |
| #\$@SFO | 001 | 0003 | 1653 | |
| #\$@SFS | 001 | 0011 | 1649 | |
| #\$@SPA | 001 | 0004 | 1489 | |
| #\$@SPO | 001 | 0003 | 1493 | |
| #\$@SPS | 001 | 0001 | 1481 | |
| #\$@STR | 001 | 0002 | 1657 | |
| #\$@TDC | 001 | 0003 | 1461 | |
| #\$@TSY | 001 | 0003 | 1421 | |
| #\$@TVK | 001 | 0001 | 1597 | |
| #\$@UAL | 001 | 0011 | 1613 | |
| #\$@UAT | 001 | 000C | 1709 | |
| #\$@UCD | 001 | 000B | 1717 | |
| #\$@UCN | 001 | 0009 | 1701 | |
| #\$@UCP | 001 | 000F | 1705 | |
| #\$@UDE | 001 | 000E | 1721 | |

CROSS REFERENCE

VER 15, MOD 00 30/05/22 PAGE 25

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|---------|-----|-------|------|------------|
| #\$@UDI | 001 | 0008 | 1725 | |
| #\$@UEX | 001 | 000E | 1609 | |
| #\$@UIN | 001 | 000F | 1713 | |
| #\$@UPA | 001 | 0004 | 1693 | |
| #\$@UPO | 001 | 0005 | 1761 | |
| #\$@UPT | 001 | 0012 | 1757 | |
| #\$@VCR | 001 | 0008 | 1553 | |
| #\$@VLO | 001 | 0002 | 1589 | |
| #\$@VOD | 001 | 0016 | 1593 | |
| #\$@VVM | 001 | 0030 | 1601 | |
| #\$@VXI | 001 | 0002 | 1581 | |
| #\$@ZDU | 001 | 0008 | 1733 | |
| #\$@ZLB | 001 | 0002 | 1777 | |
| #\$@ZLO | 001 | 000C | 1737 | |
| #\$@ZLV | 001 | 0006 | 1793 | |
| #\$@ZL1 | 001 | 0007 | 1781 | |
| #\$@ZL2 | 001 | 000D | 1785 | |
| #\$@ZL3 | 001 | 000A | 1789 | |
| #\$@ZTR | 001 | 0001 | 1729 | |
| #\$@ZUT | 001 | 0014 | 1741 | |
| #\$BCOM | 001 | 0080 | 1371 | |
| #\$BOLV | 001 | 1780 | 1643 | |
| #\$DPRI | 001 | 014C | 1379 | |
| #\$DREA | 001 | 0200 | 1395 | |
| #\$DSPL | 001 | 0240 | 1415 | |
| #\$ECMA | 001 | 1900 | 1675 | |
| #\$EFKE | 001 | 1990 | 1695 | |
| #\$ERRP | 001 | 18C0 | 1667 | |
| #\$EXMS | 001 | 07D4 | 1555 | |
| #\$FILN | 001 | 1724 | 1635 | |
| #\$FIST | 001 | 1700 | 1631 | |
| #\$FMLN | 001 | 1E00 | 1763 | |
| #\$FMST | 001 | 0D00 | 1603 | |
| #\$GRAP | 001 | 0690 | 1527 | |
| #\$GUFU | 001 | 1880 | 1663 | |
| #\$INLN | 001 | 1C84 | 1743 | |
| #\$INST | 001 | 0020 | 1367 | |
| #\$KALL | 001 | 06A4 | 1531 | |
| #\$KCAL | 001 | 1CC4 | 1747 | |
| #\$KCHA | 001 | 053C | 1499 | |
| #\$KCND | 001 | 0F80 | 1615 | |
| #\$KCTL | 001 | 03BC | 1467 | |
| #\$KDEL | 001 | 035C | 1463 | |
| #\$KDIS | 001 | 0744 | 1543 | |
| #\$KDNT | 001 | 0300 | 1451 | |
| #\$KDOV | 001 | 0780 | 1547 | |
| #\$KEDI | 001 | 0188 | 1387 | |
| #\$KENA | 001 | 01C4 | 1391 | |
| #\$KEXT | 001 | 0234 | 1411 | |
| #\$KGOS | 001 | 0180 | 1383 | |
| #\$KHEL | 001 | 0A30 | 1567 | |
| #\$KKEY | 001 | 2100 | 1795 | |
| #\$KLIS | 001 | 0400 | 1471 | |
| #\$KLLA | 001 | 2004 | 1771 | |
| #\$KLOG | 001 | 0444 | 1475 | |
| #\$KMER | 001 | 030C | 1455 | |

CROSS REFERENCE

VER 15, MOD 00 30/05/22 PAGE 26

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|---------|-----|-------|------|------------|
| #\$KMOU | 001 | 0204 | 1399 | |
| #\$KNAM | 001 | 05C0 | 1511 | |
| #\$KOVN | 001 | 0290 | 1431 | |
| #\$KPAS | 001 | 0220 | 1407 | |
| #\$KPOO | 001 | 0508 | 1495 | |
| #\$KPRT | 001 | 063C | 1519 | |
| #\$KREA | 001 | 02BC | 1439 | |
| #\$KRLA | 001 | 0700 | 1535 | |
| #\$KRMO | 001 | 0214 | 1403 | |
| #\$KRNU | 001 | 0280 | 1423 | |
| #\$KROV | 001 | 028C | 1427 | |
| #\$KRSU | 001 | 1D24 | 1751 | |
| #\$KRUN | 001 | 02CC | 1447 | |
| #\$KRVL | 001 | 0710 | 1539 | |
| #\$KSAV | 001 | 0488 | 1483 | |
| #\$KSET | 001 | 0680 | 1523 | |
| #\$KSOV | 001 | 0AC8 | 1575 | |
| #\$KSSP | 001 | 0594 | 1507 | |
| #\$KSVL | 001 | 058C | 1503 | |
| #\$KSYM | 001 | 0600 | 1515 | |
| #\$KWID | 001 | 02C4 | 1443 | |
| #\$KWRI | 001 | 02B4 | 1435 | |
| #\$LOAD | 001 | 0100 | 1375 | |
| #\$MIPP | 001 | 0A80 | 1571 | |
| #\$SDSY | 001 | 192C | 1683 | |
| #\$SFFI | 001 | 193C | 1687 | |
| #\$SFLO | 001 | 1918 | 1679 | |
| #\$SFOV | 001 | 1844 | 1651 | |
| #\$SFSY | 001 | 1800 | 1647 | |
| #\$SPAC | 001 | 04CC | 1487 | |
| #\$SPOV | 001 | 04DC | 1491 | |
| #\$SPSY | 001 | 0484 | 1479 | |
| #\$STRO | 001 | 1850 | 1655 | |
| #\$TDCK | 001 | 0350 | 1459 | |
| #\$TSYK | 001 | 0250 | 1419 | |
| #\$TVKB | 001 | 0BAC | 1595 | |
| #\$UALL | 001 | 0F00 | 1611 | |
| #\$UATR | 001 | 1A38 | 1707 | |
| #\$UCDI | 001 | 1AD8 | 1715 | |
| #\$UCNF | 001 | 19B8 | 1699 | |
| #\$UCPL | 001 | 19DC | 1703 | |
| #\$UDEL | 001 | 1B24 | 1719 | |
| #\$UDIS | 001 | 1B5C | 1723 | |
| #\$UEXL | 001 | 0EA8 | 1607 | |
| #\$UINI | 001 | 1A88 | 1711 | |
| #\$UPAC | 001 | 1980 | 1691 | |
| #\$UPOV | 001 | 1D24 | 1759 | |
| #\$UPTF | 001 | 1D5C | 1755 | |
| #\$VCRT | 001 | 07B4 | 1551 | |
| #\$VLOA | 001 | 0B80 | 1587 | |
| #\$VODK | 001 | 0B88 | 1591 | |
| #\$VVMR | 001 | 0C00 | 1599 | |
| #\$VXIT | 001 | 0B00 | 1579 | |
| #\$ZDUM | 001 | 1BA4 | 1731 | |
| #\$ZLBM | 001 | 2008 | 1775 | |
| #\$ZLOA | 001 | 1BC4 | 1735 | |

CROSS REFERENCE

VER 15, MOD 00 30/05/22 PAGE 27

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|---------|-----|-------|------|------------|
| #\$ZLVR | 001 | 20B0 | 1791 | |
| #\$ZL1M | 001 | 2010 | 1779 | |
| #\$ZL2M | 001 | 2030 | 1783 | |
| #\$ZL3M | 001 | 2088 | 1787 | |
| #\$ZTRA | 001 | 1B9C | 1727 | |
| #\$ZUTM | 001 | 1C14 | 1739 | |
| #KWID | 001 | 0C07 | 1921 | |
| #KWIDT | 001 | 0000 | 0001 | |
| @@E001 | 001 | 0000 | 1259 | 1261 |
| @@E003 | 001 | 0001 | 1261 | 1263 |
| @@E004 | 001 | 0002 | 1263 | 1265 |
| @@E005 | 001 | 0003 | 1265 | 1267 |
| @@E006 | 001 | 0004 | 1267 | 1269 |
| @@E007 | 001 | 0005 | 1269 | 1271 |
| @@E008 | 001 | 0006 | 1271 | 1273 |
| @@E009 | 001 | 0007 | 1273 | 1275 |
| @@E010 | 001 | 0008 | 1275 | 1277 |
| @@E011 | 001 | 0009 | 1277 | 1279 |
| @@E012 | 001 | 000A | 1279 | 1281 |
| @@E013 | 001 | 000B | 1281 | 1283 |
| @@E014 | 001 | 000C | 1283 | 1285 |
| @@E015 | 001 | 000D | 1285 | 1287 |
| @@E016 | 001 | 000E | 1287 | 1289 |
| @@E017 | 001 | 000F | 1289 | 1291 |
| @@E018 | 001 | 0010 | 1291 | 1293 |
| @@E019 | 001 | 0011 | 1293 | 1295 |
| @@E020 | 001 | 0012 | 1295 | 1297 |
| @@E021 | 001 | 0013 | 1297 | 1299 |
| @@E023 | 001 | 0014 | 1299 | 1301 |
| @@E024 | 001 | 0015 | 1301 | 1303 |
| @@E025 | 001 | 0016 | 1303 | 1305 |
| @@E026 | 001 | 0017 | 1305 | 1307 |
| @@E027 | 001 | 0018 | 1307 | 1309 |
| @@E028 | 001 | 0019 | 1309 | 1311 |
| @@E029 | 001 | 001A | 1311 | 1313 |
| @@E030 | 001 | 001B | 1313 | 1315 |
| @@E031 | 001 | 001C | 1315 | 1317 |
| @@E032 | 001 | 001D | 1317 | 1319 |
| @@E035 | 001 | 001E | 1319 | 1321 |
| @@E036 | 001 | 001F | 1321 | 1323 |
| @@E037 | 001 | 0020 | 1323 | 1325 |
| @@E038 | 001 | 0021 | 1325 | 1327 |
| @@E039 | 001 | 0022 | 1327 | 1329 |
| @@E040 | 001 | 0023 | 1329 | 1331 |
| @@E041 | 001 | 0024 | 1331 | 1333 |
| @@E042 | 001 | 0025 | 1333 | 1335 |
| @@E043 | 001 | 0026 | 1335 | 1337 |
| @@E044 | 001 | 0027 | 1337 | 1339 |
| @@E045 | 001 | 0028 | 1339 | 1341 |
| @@E046 | 001 | 0029 | 1341 | 1343 |
| @@E060 | 001 | 002A | 1343 | 1345 |
| @@E080 | 001 | 002B | 1345 | |
| @@E100 | 001 | 0000 | 0731 | 0733 |
| @@E101 | 001 | 0001 | 0733 | 0735 |
| @@E102 | 001 | 0002 | 0735 | 0737 |
| @@E103 | 001 | 0003 | 0737 | 0739 |

CROSS REFERENCE

VER 15, MOD 00 30/05/22 PAGE 28

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|--------|-----|-------|------|------------|
| @@E110 | 001 | 0004 | 0739 | 0741 2276 |
| @@E112 | 001 | 0005 | 0741 | 0743 |
| @@E113 | 001 | 0006 | 0743 | 0745 |
| @@E114 | 001 | 0007 | 0745 | 0747 |
| @@E115 | 001 | 0008 | 0747 | 0749 |
| @@E116 | 001 | 0009 | 0749 | 0751 |
| @@E117 | 001 | 000A | 0751 | 0753 |
| @@E120 | 001 | 000B | 0753 | 0755 |
| @@E122 | 001 | 000C | 0755 | 0757 2093 |
| @@E123 | 001 | 000D | 0757 | 0759 |
| @@E124 | 001 | 000E | 0759 | 0761 |
| @@E129 | 001 | 000F | 0761 | 0763 |
| @@E130 | 001 | 0010 | 0763 | 0765 2030 |
| @@E131 | 001 | 0011 | 0765 | 0767 2033 |
| @@E133 | 001 | 0012 | 0767 | 0769 2038 |
| @@E134 | 001 | 0013 | 0769 | 0771 |
| @@E135 | 001 | 0014 | 0771 | 0773 |
| @@E136 | 001 | 0015 | 0773 | 0775 |
| @@E137 | 001 | 0016 | 0775 | 0777 |
| @@E138 | 001 | 0017 | 0777 | 0779 |
| @@E139 | 001 | 0018 | 0779 | 0781 2027 |
| @@E142 | 001 | 0019 | 0781 | 0783 |
| @@E143 | 001 | 001A | 0783 | 0785 |
| @@E150 | 001 | 001B | 0785 | 0787 |
| @@E151 | 001 | 001C | 0787 | 0789 |
| @@E160 | 001 | 001D | 0789 | 0791 |
| @@E162 | 001 | 001E | 0791 | 0793 |
| @@E163 | 001 | 001F | 0793 | 0795 |
| @@E164 | 001 | 0020 | 0795 | 0797 |
| @@E200 | 001 | 0021 | 0797 | 0799 |
| @@E205 | 001 | 0022 | 0799 | 0801 |
| @@E210 | 001 | 0023 | 0801 | 0803 |
| @@E211 | 001 | 0024 | 0803 | 0805 |
| @@E212 | 001 | 0025 | 0805 | 0807 |
| @@E213 | 001 | 0026 | 0807 | 0809 |
| @@E215 | 001 | 0027 | 0809 | 0811 |
| @@E216 | 001 | 0028 | 0811 | 0813 |
| @@E217 | 001 | 0029 | 0813 | 0815 |
| @@E220 | 001 | 002A | 0815 | 0817 |
| @@E221 | 001 | 002B | 0817 | 0819 |
| @@E222 | 001 | 002C | 0819 | 0821 |
| @@E223 | 001 | 002D | 0821 | 0823 |
| @@E225 | 001 | 002E | 0823 | 0825 |
| @@E226 | 001 | 002F | 0825 | 0827 |
| @@E227 | 001 | 0030 | 0827 | 0829 |
| @@E228 | 001 | 0031 | 0829 | 0831 |
| @@E229 | 001 | 0032 | 0831 | 0833 |
| @@E230 | 001 | 0033 | 0833 | 0835 |
| @@E232 | 001 | 0034 | 0835 | 0837 |
| @@E234 | 001 | 0035 | 0837 | 0839 |
| @@E237 | 001 | 0036 | 0839 | 0841 |
| @@E240 | 001 | 0037 | 0841 | 0843 |
| @@E241 | 001 | 0038 | 0843 | 0845 |
| @@E242 | 001 | 0039 | 0845 | 0847 |
| @@E248 | 001 | 003A | 0847 | 0849 |
| @@E249 | 001 | 003B | 0849 | 0851 |

CROSS REFERENCE

VER 15, MOD 00 30/05/22 PAGE 29

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|--------|-----|-------|------|------------|
| @@E250 | 001 | 003C | 0851 | 0853 |
| @@E251 | 001 | 003D | 0853 | 0855 |
| @@E252 | 001 | 003E | 0855 | 0857 |
| @@E253 | 001 | 003F | 0857 | 0859 |
| @@E254 | 001 | 0040 | 0859 | 0861 |
| @@E255 | 001 | 0041 | 0861 | 0863 |
| @@E256 | 001 | 0042 | 0863 | 0865 |
| @@E300 | 001 | 0043 | 0865 | 0867 |
| @@E301 | 001 | 0044 | 0867 | 0869 |
| @@E302 | 001 | 0045 | 0869 | 0871 |
| @@E303 | 001 | 0046 | 0871 | 0873 |
| @@E304 | 001 | 0047 | 0873 | 0875 |
| @@E305 | 001 | 0048 | 0875 | 0877 |
| @@E308 | 001 | 0049 | 0877 | 0879 |
| @@E310 | 001 | 004A | 0879 | 0881 |
| @@E315 | 001 | 004B | 0881 | 0883 |
| @@E316 | 001 | 004C | 0883 | 0885 |
| @@E320 | 001 | 004D | 0885 | 0887 |
| @@E325 | 001 | 004E | 0887 | 0889 |
| @@E330 | 001 | 004F | 0889 | 0891 |
| @@E335 | 001 | 0050 | 0891 | 0893 |
| @@E338 | 001 | 0051 | 0893 | 0895 |
| @@E340 | 001 | 0052 | 0895 | 0897 |
| @@E350 | 001 | 0053 | 0897 | 0899 |
| @@E351 | 001 | 0054 | 0899 | 0901 |
| @@E352 | 001 | 0055 | 0901 | 0903 |
| @@E360 | 001 | 0056 | 0903 | 0905 |
| @@E361 | 001 | 0057 | 0905 | 0907 |
| @@E362 | 001 | 0058 | 0907 | 0909 |
| @@E371 | 001 | 0059 | 0909 | 0911 |
| @@E380 | 001 | 005A | 0911 | 0913 |
| @@E390 | 001 | 005B | 0913 | 0915 |
| @@E400 | 001 | 005C | 0915 | 0917 |
| @@E410 | 001 | 005D | 0917 | 0919 |
| @@E415 | 001 | 005E | 0919 | 0921 |
| @@E417 | 001 | 005F | 0921 | 0923 |
| @@E420 | 001 | 0060 | 0923 | 0925 |
| @@E430 | 001 | 0061 | 0925 | 0927 |
| @@E432 | 001 | 0062 | 0927 | 0929 |
| @@E433 | 001 | 0063 | 0929 | 0931 |
| @@E450 | 001 | 0064 | 0931 | 0933 |
| @@E451 | 001 | 0065 | 0933 | 0935 |
| @@E460 | 001 | 0066 | 0935 | 0937 2044 |
| @@E461 | 001 | 0067 | 0937 | 0939 2041 |
| @@E464 | 001 | 0068 | 0939 | 0941 |
| @@E465 | 001 | 0069 | 0941 | 0943 |
| @@E466 | 001 | 006A | 0943 | 0945 |
| @@E467 | 001 | 006B | 0945 | 0947 |
| @@E469 | 001 | 006C | 0947 | 0949 |
| @@E470 | 001 | 006D | 0949 | 0951 |
| @@E471 | 001 | 006E | 0951 | 0953 |
| @@E473 | 001 | 006F | 0953 | 0955 |
| @@E474 | 001 | 0070 | 0955 | 0957 |
| @@E475 | 001 | 0071 | 0957 | 0959 |
| @@E476 | 001 | 0072 | 0959 | 0961 |
| @@E477 | 001 | 0073 | 0961 | 0963 |

CROSS REFERENCE

VER 15, MOD 00 30/05/22 PAGE 30

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|--------|-----|-------|------|------------|
| @@E478 | 001 | 0074 | 0963 | 0965 |
| @@E479 | 001 | 0075 | 0965 | 0967 |
| @@E480 | 001 | 0076 | 0967 | 0969 |
| @@E481 | 001 | 0077 | 0969 | 0971 |
| @@E482 | 001 | 0078 | 0971 | 0973 |
| @@E483 | 001 | 0079 | 0973 | 0975 |
| @@E484 | 001 | 007A | 0975 | 0977 |
| @@E485 | 001 | 007B | 0977 | 0979 |
| @@E486 | 001 | 007C | 0979 | 0981 |
| @@E487 | 001 | 007D | 0981 | 0983 |
| @@E488 | 001 | 007E | 0983 | 0985 |
| @@E489 | 001 | 007F | 0985 | 0987 |
| @@E490 | 001 | 0080 | 0987 | 0989 |
| @@E491 | 001 | 0081 | 0989 | 0991 |
| @@E492 | 001 | 0082 | 0991 | 0993 |
| @@E493 | 001 | 0083 | 0993 | 0995 |
| @@E494 | 001 | 0084 | 0995 | 0997 |
| @@E495 | 001 | 0085 | 0997 | 0999 |
| @@E496 | 001 | 0086 | 0999 | 1001 |
| @@E497 | 001 | 0087 | 1001 | 1003 |
| @@E498 | 001 | 0088 | 1003 | 1005 |
| @@E500 | 001 | 0089 | 1005 | 1007 |
| @@E501 | 001 | 008A | 1007 | 1009 |
| @@E530 | 001 | 008B | 1009 | 1011 |
| @@E531 | 001 | 008C | 1011 | 1013 |
| @@E535 | 001 | 008D | 1013 | 1015 |
| @@E540 | 001 | 008E | 1015 | 1017 |
| @@E541 | 001 | 008F | 1017 | 1019 |
| @@E542 | 001 | 0090 | 1019 | 1021 |
| @@E543 | 001 | 0091 | 1021 | 1023 |
| @@E544 | 001 | 0092 | 1023 | 1025 |
| @@E545 | 001 | 0093 | 1025 | 1027 |
| @@E546 | 001 | 0094 | 1027 | 1029 |
| @@E547 | 001 | 0095 | 1029 | 1031 |
| @@E548 | 001 | FFFF | 1235 | |
| @@E549 | 001 | 0096 | 1031 | 1033 |
| @@E550 | 001 | 0097 | 1033 | 1035 |
| @@E551 | 001 | 0098 | 1035 | 1037 |
| @@E552 | 001 | 0099 | 1037 | 1039 |
| @@E553 | 001 | 009A | 1039 | 1041 |
| @@E554 | 001 | 009B | 1041 | 1043 |
| @@E555 | 001 | 009C | 1043 | 1045 |
| @@E556 | 001 | 009D | 1045 | 1047 |
| @@E558 | 001 | 009E | 1047 | 1049 |
| @@E570 | 001 | 009F | 1049 | 1051 |
| @@E571 | 001 | 00A0 | 1051 | 1053 |
| @@E572 | 001 | 00A1 | 1053 | 1055 |
| @@E573 | 001 | 00A2 | 1055 | 1057 |
| @@E574 | 001 | 00A3 | 1057 | 1059 |
| @@E575 | 001 | FFFF | 1237 | |
| @@E578 | 001 | 00A4 | 1059 | 1061 |
| @@E579 | 001 | FFFF | 1239 | |
| @@E580 | 001 | FFFF | 1241 | |
| @@E585 | 001 | 00A5 | 1061 | 1063 |
| @@E595 | 001 | FFFF | 1243 | |
| @@E597 | 001 | FFFF | 1245 | |

CROSS REFERENCE

VER 15, MOD 00 30/05/22 PAGE 31

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|--------|-----|-------|------|------------|
| @@E598 | 001 | FFFF | 1247 | |
| @@E600 | 001 | 00A6 | 1063 | 1065 |
| @@E601 | 001 | 00A7 | 1065 | 1067 |
| @@E602 | 001 | 00A8 | 1067 | 1069 |
| @@E603 | 001 | 00A9 | 1069 | 1071 |
| @@E604 | 001 | 00AA | 1071 | 1073 |
| @@E606 | 001 | 00AB | 1073 | 1075 |
| @@E607 | 001 | 00AC | 1075 | 1077 |
| @@E608 | 001 | 00AD | 1077 | 1079 |
| @@E609 | 001 | 00AE | 1079 | 1081 |
| @@E610 | 001 | 00AF | 1081 | 1083 |
| @@E611 | 001 | 00B0 | 1083 | 1085 |
| @@E612 | 001 | 00B1 | 1085 | 1087 |
| @@E613 | 001 | 00B2 | 1087 | 1089 |
| @@E614 | 001 | 00B3 | 1089 | 1091 |
| @@E700 | 001 | 00B4 | 1091 | 1093 |
| @@E701 | 001 | 00B5 | 1093 | 1095 |
| @@E710 | 001 | 00B6 | 1095 | 1097 |
| @@E712 | 001 | 00B7 | 1097 | 1099 |
| @@E713 | 001 | 00B8 | 1099 | 1101 |
| @@E714 | 001 | 00B9 | 1101 | 1103 |
| @@E715 | 001 | 00BA | 1103 | 1105 |
| @@E716 | 001 | 00BB | 1105 | 1107 |
| @@E717 | 001 | 00BC | 1107 | 1109 |
| @@E718 | 001 | 00BD | 1109 | 1111 |
| @@E720 | 001 | 00BE | 1111 | 1113 |
| @@E721 | 001 | 00BF | 1113 | 1115 |
| @@E723 | 001 | 00C0 | 1115 | 1117 |
| @@E724 | 001 | 00C1 | 1117 | 1119 |
| @@E725 | 001 | 00C2 | 1119 | 1121 |
| @@E726 | 001 | 00C3 | 1121 | 1123 |
| @@E727 | 001 | 00C4 | 1123 | 1125 |
| @@E728 | 001 | 00C5 | 1125 | 1127 |
| @@E729 | 001 | 00C6 | 1127 | 1129 |
| @@E730 | 001 | 00C7 | 1129 | 1131 |
| @@E732 | 001 | 00C8 | 1131 | 1133 |
| @@E752 | 001 | 00C9 | 1133 | 1135 |
| @@E753 | 001 | 00CA | 1135 | 1137 |
| @@E754 | 001 | 00CB | 1137 | 1139 |
| @@E755 | 001 | 00CC | 1139 | 1141 |
| @@E756 | 001 | 00CD | 1141 | 1143 |
| @@E757 | 001 | 00CE | 1143 | 1145 |
| @@E758 | 001 | 00CF | 1145 | 1147 |
| @@E759 | 001 | 00D0 | 1147 | 1149 |
| @@E760 | 001 | 00D1 | 1149 | 1151 |
| @@E761 | 001 | 00D2 | 1151 | 1153 |
| @@E762 | 001 | 00D3 | 1153 | 1155 |
| @@E763 | 001 | 00D4 | 1155 | 1157 |
| @@E764 | 001 | 00D5 | 1157 | 1159 |
| @@E765 | 001 | 00D6 | 1159 | 1161 |
| @@E766 | 001 | 00D7 | 1161 | 1163 |
| @@E767 | 001 | 00D8 | 1163 | 1165 |
| @@E768 | 001 | 00D9 | 1165 | 1167 |
| @@E769 | 001 | 00DA | 1167 | 1169 |
| @@E770 | 001 | 00DB | 1169 | 1171 |
| @@E771 | 001 | 00DC | 1171 | 1173 |

CROSS REFERENCE

VER 15, MOD 00 30/05/22 PAGE 32

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|--------|-----|-------|------|---------------------|
| @@E772 | 001 | 00DD | 1173 | 1175 |
| @@E773 | 001 | 00DE | 1175 | 1177 |
| @@E774 | 001 | 00DF | 1177 | 1179 |
| @@E775 | 001 | 00E0 | 1179 | 1181 |
| @@E776 | 001 | 00E1 | 1181 | 1183 |
| @@E777 | 001 | 00E2 | 1183 | 1185 |
| @@E778 | 001 | 00E3 | 1185 | 1187 |
| @@E779 | 001 | 00E4 | 1187 | 1189 |
| @@E780 | 001 | 00E5 | 1189 | 1191 |
| @@E781 | 001 | 00E6 | 1191 | 1193 |
| @@E782 | 001 | 00E7 | 1193 | 1195 |
| @@E783 | 001 | 00E8 | 1195 | 1197 |
| @@E784 | 001 | 00E9 | 1197 | 1199 |
| @@E785 | 001 | 00EA | 1199 | 1201 |
| @@E786 | 001 | 00EB | 1201 | 1203 |
| @@E790 | 001 | 00EC | 1203 | 1205 |
| @@E791 | 001 | 00ED | 1205 | 1207 |
| @@E792 | 001 | 00EE | 1207 | 1209 |
| @@E793 | 001 | 00EF | 1209 | 1211 |
| @@E794 | 001 | 00F0 | 1211 | 1213 |
| @@E795 | 001 | 00F1 | 1213 | 1215 |
| @@E796 | 001 | 00F2 | 1215 | 1217 |
| @@E797 | 001 | 00F3 | 1217 | 1219 |
| @@E798 | 001 | 00F4 | 1219 | 1221 |
| @@E800 | 001 | FFFF | 1249 | |
| @@E801 | 001 | FFFF | 1251 | |
| @@E802 | 001 | FFFF | 1253 | |
| @@E803 | 001 | FFFF | 1255 | |
| @@E804 | 001 | FFFF | 1257 | |
| @@E900 | 001 | 00F5 | 1221 | 1223 |
| @@E901 | 001 | 00F6 | 1223 | 1225 |
| @@E902 | 001 | 00F7 | 1225 | 1227 |
| @@E903 | 001 | 00F8 | 1227 | 1229 |
| @@E905 | 001 | 00F9 | 1229 | 1231 |
| @@E906 | 001 | 00FA | 1231 | 1233 |
| @@E910 | 001 | 00FB | 1233 | |
| @ARR | 001 | 0008 | 0016 | 2090 2274 |
| @ASIGN | 001 | 007C | 0071 | |
| @ASTER | 001 | 005C | 0069 | |
| @BCRDL | 001 | 0050 | 0088 | |
| @BE | 001 | 0081 | 0043 | |
| @BF | 001 | 0090 | 0052 | |
| @BH | 001 | 0084 | 0041 | |
| @BL | 001 | 0082 | 0042 | |
| @BLANK | 001 | 0040 | 0065 | 1926 2126 2279 2285 |
| @BM | 001 | 0082 | 0054 | |
| @BNE | 001 | 0001 | 0046 | 2270 |
| @BNH | 001 | 0004 | 0044 | |
| @BNL | 001 | 0002 | 0045 | |
| @BNM | 001 | 0002 | 0057 | |
| @BNOL | 001 | 0020 | 0050 | |
| @BNOZ | 001 | 0008 | 0049 | |
| @BNP | 001 | 0004 | 0056 | |
| @BNZ | 001 | 0001 | 0058 | |
| @BOL | 001 | 00A0 | 0048 | |
| @BOZ | 001 | 0088 | 0047 | |

CROSS REFERENCE

VER 15, MOD 00 30/05/22 PAGE 33

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|--------|-----|-------|------|--|
| @BP | 001 | 0084 | 0053 | |
| @BR | 001 | 0001 | 0013 | 1907 1924* 1929 1944 1967 1969 1969 1985 1985 1988 1988 1993 1993 1998 1998 2001 2004 2004 2005 2006 2008 2014 2021 2027 2030 2033 2038 2041 2044 2085 2087 2088* 2090 2092 2094 2094 2104 2104 2109 2109 2110 2110 2111 2111 2112 2112 2113 2113 2117 2118 2118 2121 2127 2128 2133 2134 2134 2136* |
| @BT | 001 | 0010 | 0051 | |
| @BZ | 001 | 0081 | 0055 | |
| @B1 | 001 | 0001 | 0063 | 2120 2125 |
| @CADDR | 001 | 0002 | 0142 | |
| @CARDL | 001 | 0060 | 0087 | 0644 |
| @CHARA | 001 | 00C1 | 0072 | |
| @CHARF | 001 | 00C6 | 0073 | |
| @CHARR | 001 | 00D9 | 0074 | |
| @CHARZ | 001 | 00E9 | 0075 | |
| @CLOFF | 001 | 0010 | 0094 | |
| @CLON | 001 | 0011 | 0093 | |
| @COMMA | 001 | 006B | 0066 | 2281 |
| @CPLUS | 001 | 004E | 0079 | |
| @DADDR | 001 | 0002 | 0140 | |
| @DBFR1 | 001 | 0004 | 0129 | |
| @DBFR2 | 001 | 0005 | 0130 | |
| @DCALK | 001 | 0001 | 0081 | |
| @DCBCY | 001 | 0009 | 0115 | |
| @DCBT1 | 001 | 0050 | 0117 | |
| @DCNT | 001 | 0003 | 0128 | |
| @DCST1 | 001 | 0040 | 0116 | |
| @DCTRL | 001 | 0000 | 0125 | |
| @DCYL | 001 | 0001 | 0126 | |
| @DD2 | 001 | 0003 | 0030 | |
| @DGET | 001 | 0001 | 0134 | |
| @DOLAR | 001 | 005B | 0068 | |
| @DOP2 | 001 | 0004 | 0028 | |
| @DPLNG | 001 | 0006 | 0132 | |
| @DPOS | 001 | 0000 | 0133 | |
| @DPUT | 001 | 0002 | 0135 | |
| @DSAD | 001 | 0002 | 0127 | |
| @DSBCY | 001 | 0004 | 0106 | |
| @DSCS1 | 001 | 0000 | 0107 | |
| @DSIVF | 001 | 0003 | 0138 | |
| @DSPIN | 001 | 0002 | 0131 | |
| @DTRSZ | 001 | 0018 | 0085 | |
| @DVBCY | 001 | 0007 | 0108 | |
| @DVRFY | 001 | 0031 | 0136 | |
| @DWAIT | 001 | 00FF | 0137 | |
| @DWBCY | 001 | 0005 | 0103 | |
| @DWSIZ | 001 | 00C0 | 0105 | |
| @DWTB1 | 001 | 0003 | 0104 | |
| @DZERO | 001 | 00F0 | 0064 | |
| @D1 | 001 | 0002 | 0026 | 2104 |
| @EOF | 001 | 001C | 0077 | |
| @EOFTC | 001 | 0075 | 0162 | |
| @EOS | 001 | 001E | 0076 | 1936 1951 1976 1978 2287 |
| @FDDBC | 001 | 0000 | 0195 | |
| @FDE1 | 001 | 000C | 0200 | |
| @FDFNA | 001 | 000B | 0198 | |

CROSS REFERENCE

VER 15, MOD 00 30/05/22 PAGE 34

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|--------|-----|-------|------|--|
| @FDHLN | 001 | 0002 | 0208 | |
| @FDLNC | 001 | 0002 | 0193 | |
| @FDNSC | 001 | 0003 | 0210 | |
| @FDSD | 001 | 0000 | 0206 | |
| @FLACE | 001 | 0009 | 0197 | |
| @FLDBC | 001 | 0001 | 0196 | |
| @FLENT | 001 | 0004 | 0201 | |
| @FLFNA | 001 | 0002 | 0199 | |
| @FLHLN | 001 | 0002 | 0209 | |
| @FLLNC | 001 | 0002 | 0194 | |
| @FLNSC | 001 | 0001 | 0211 | |
| @FLSD | 001 | 0001 | 0207 | |
| @HDRLN | 001 | 0007 | 0092 | 0672 |
| @IAR | 001 | 0010 | 0017 | |
| @INDEX | 001 | 0001 | 0156 | 0157 |
| @INST3 | 001 | 0003 | 0032 | |
| @INST4 | 001 | 0004 | 0033 | |
| @INST5 | 001 | 0005 | 0034 | |
| @INST6 | 001 | 0006 | 0035 | |
| @I1IAR | 001 | 00C0 | 0020 | |
| @LINSZ | 001 | 00F4 | 0084 | 0646 |
| @MAPEN | 001 | 0005 | 0089 | |
| @MINCR | 001 | 2000 | 0083 | |
| @MINUS | 001 | 0060 | 0080 | |
| @NOP | 001 | 0080 | 0040 | 2099 2173 |
| @NUMBR | 001 | 007B | 0070 | |
| @OPD2 | 001 | 0004 | 0029 | |
| @OP1 | 001 | 0003 | 0027 | 2087* 2090* 2274* |
| @OP2 | 001 | 0005 | 0031 | |
| @PCTRL | 001 | 0000 | 0149 | |
| @PDATA | 001 | 0003 | 0151 | |
| @PGCSZ | 001 | 0020 | 0082 | 0083 |
| @PPLNG | 001 | 0004 | 0148 | |
| @PRCNT | 001 | 0001 | 0150 | |
| @PRETR | 001 | 00C0 | 0154 | |
| @PRINT | 001 | 0040 | 0152 | 0154 2072 |
| @PSR | 001 | 0004 | 0015 | |
| @PWAIT | 001 | 00FF | 0158 | |
| @P1IAR | 001 | 0020 | 0018 | |
| @P2IAR | 001 | 0040 | 0019 | |
| @Q | 001 | 0001 | 0024 | 2027* 2030* 2033* 2038* 2041* 2044* 2167 2171 2293 |
| @REGL | 001 | 0002 | 0012 | |
| @RETRN | 001 | 0080 | 0153 | 0154 2076 |
| @RLDWN | 001 | 004F | 0159 | |
| @RTRNC | 001 | 0080 | 0161 | |
| @SBLN | 001 | 0005 | 0170 | |
| @SBLNL | 001 | 0002 | 0184 | |
| @SCTSZ | 001 | 0100 | 0100 | |
| @SDFLN | 001 | 0007 | 0090 | |
| @SDF0 | 001 | 0000 | 0166 | |
| @SDF1 | 001 | 0001 | 0167 | |
| @SDF2 | 001 | 0002 | 0168 | |
| @SDF3 | 001 | 0003 | 0169 | |
| @SECCY | 001 | 0030 | 0086 | |
| @SIST | 001 | 0001 | 0181 | |
| @SLASH | 001 | 0061 | 0067 | |

CROSS REFERENCE

VER 15, MOD 00 30/05/22 PAGE 35

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|--------|-----|-------|------|---|
| @SLAST | 001 | 0002 | 0183 | |
| @SMIDL | 001 | 0003 | 0182 | |
| @SNULL | 001 | 0080 | 0173 | |
| @SONLY | 001 | 0000 | 0180 | |
| @STEXT | 001 | 0007 | 0172 | |
| @STYPE | 001 | 0006 | 0171 | |
| @TBCNT | 001 | 0000 | 0160 | |
| @TBLEF | 001 | 0010 | 0155 | 0157 |
| @TBLIX | 001 | 0011 | 0157 | |
| @UCB | 001 | 0087 | 0039 | 2169 2271 2282 |
| @UPARW | 001 | 005A | 0078 | |
| @VADDR | 001 | 0002 | 0141 | |
| @VENTA | 001 | 0056 | 0113 | |
| @VMDDV | 001 | 00FE | 0114 | |
| @VMFD1 | 001 | 0000 | 0109 | |
| @VMFD2 | 001 | 0001 | 0110 | |
| @VMRS3 | 001 | 0002 | 0112 | |
| @VMTRL | 001 | 0001 | 0111 | |
| @VOLID | 001 | 0006 | 0091 | |
| @VQ | 001 | 0001 | 0025 | |
| @WSFIT | 001 | 0500 | 0101 | |
| @WSTBL | 001 | 0503 | 0102 | |
| @XR | 001 | 0002 | 0014 | 1931* 1932 1936 1951 1964* 1976 1978 2035* 2046* 2092 2101 2117 2120 2120* 2125 2125* 2126 2133 2275 2278 2278* 2279 2281 2284 2284* 2285 2287 2289 |
| @ZERO | 001 | 0000 | 0062 | 1936 1951 1954 1976 1978 |
| C4BCHC | 001 | 0004 | 2161 | |
| C4BCHR | 001 | 0D99 | 2149 | 2117* 2118 |
| C4BINI | 001 | 0D98 | 2147 | 2094 |
| C4BIN2 | 001 | 0D2D | 2084 | 1939 1960 2085 2088 |
| C4BLEN | 002 | 0D95 | 2159 | 2133* 2134* |
| C4BLNK | 003 | 0D48 | 2167 | |
| C4BLOW | 001 | 00F0 | 2163 | 2101 |
| C4BLVL | 002 | 0002 | 2165 | 2094 2109 2110 2111 2112 2113 2118 |
| C4BNMC | 004 | 0D44 | 2171 | |
| C4BNOP | 001 | 0080 | 2173 | |
| C4BSAV | 002 | 0D9B | 2153 | 1964 2035 2092* 2134 |
| C4BSPC | 001 | 0087 | 2169 | |
| C4BVAL | 002 | 0D97 | 2145 | 1944 1967 2094* 2109 2109* 2110 2111 2111* 2112 2112* 2113* 2118* 2165 |
| C4BWRK | 002 | 0D95 | 2142 | 2110* 2113 2159 2165 |
| C4BYT1 | 001 | 0D96 | 2144 | |
| C4B100 | 004 | 0D43 | 2095 | 2171 |
| C4B200 | 003 | 0D47 | 2099 | 2121 2167 |
| C4B300 | 003 | 0D4A | 2101 | 2127 |
| C4B590 | 003 | 0D79 | 2125 | 2104 2128 |
| C4B600 | 003 | 0D7C | 2126 | 2099 |
| C4B700 | 003 | 0D85 | 2133 | 2102 |
| C4B800 | 004 | 0D8C | 2136 | 2087* 2105 |
| C4B850 | 004 | 0D90 | 2138 | 2090* |
| C4B900 | 001 | 0D9C | 2155 | 2095* 2104* |
| C4END | 001 | 0D9D | 2174 | |
| KWIBL1 | 001 | 0001 | 2056 | 1929 1969 2001 2004 2005 2006 2008 2014 2021 |
| KWIBL2 | 001 | 0002 | 2055 | 1944 1967 1985 1988 1993 1998 |
| KWIBNK | 001 | 0D26 | 2072 | 2006* 2010 |
| KWIBUF | 001 | 0E00 | 2317 | 1926* 1927 1927* 2074 |

CROSS REFERENCE

VER 15, MOD 00 30/05/22 PAGE 36

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|--------|-----|-------|------|---|
| KWIDSH | 001 | 0060 | 2059 | 1932 |
| KWIDTH | 001 | 0C00 | 1908 | 2046 |
| KWIEOS | 001 | 0D2A | 2075 | 2017 |
| KWIHLD | 001 | 0D2C | 2078 | 2004* 2005* 2006 |
| KWILBF | 001 | 00C9 | 2058 | 1926* 1927 1927 1927* |
| KWILEN | 002 | 0D1C | 2061 | 1944* 1985 1988* 1993 1998 2021 |
| KWILFM | 002 | 0D1E | 2063 | 1929* 1967* 1969* 1988 2001 2004 2014 2066 |
| KWIMIN | 002 | 0D20 | 2068 | 1985 |
| KWIMR1 | 002 | 0D24 | 2070 | 1998 |
| KWIMR2 | 002 | 0D22 | 2069 | 1993 2008 |
| KWIONE | 001 | 0D25 | 2071 | 1969 |
| KWI000 | 001 | 0000 | 2053 | |
| KWI001 | 001 | 0001 | 2054 | |
| KWI100 | 004 | 0C55 | 1960 | |
| KWI130 | 004 | 0C5F | 1964 | 1940 |
| KWI150 | 005 | 0C66 | 1967 | 1962 |
| KWI200 | 003 | 0C82 | 1978 | 1974 |
| KWI500 | 004 | 0C88 | 1985 | 1907 1924 1952 |
| KWI600 | 004 | 0CA4 | 1998 | 1991 |
| KWI650 | 005 | 0CAB | 2001 | 1996 |
| KWI700 | 005 | 0CCC | 2014 | 2002 |
| KWI800 | 003 | 0CEA | 2027 | 1933 |
| KWI900 | 003 | 0CF0 | 2030 | 1937 |
| KWI910 | 003 | 0CF6 | 2033 | 1941 1955 1961 1970 1977 |
| KWI915 | 004 | 0CF9 | 2035 | |
| KWI920 | 003 | 0D00 | 2038 | 1979 |
| KWI930 | 003 | 0D06 | 2041 | 1986 |
| KWI940 | 003 | 0D0C | 2044 | 1994 1999 |
| KWI945 | 004 | 0D0F | 2046 | 2042 |
| KWI950 | 004 | 0D13 | 2047 | 2027* 2028 2030* 2031 2033* 2036 2038* 2039 2041* 2044* |
| KWI960 | 004 | 0D17 | 2048 | 1949 1965 1973 |
| SCACNT | 002 | 0DDD | 2299 | 1954 2289* 2290* |
| SCACOF | 001 | 0087 | 2271 | |
| SCACOM | 001 | 0001 | 2270 | 1947 |
| SCAINC | 001 | 0001 | 2269 | 2278 2284 |
| SCAMMA | 003 | 0DBA | 2293 | 1947* |
| SCANIT | 001 | 0D9D | 2273 | 1934 1948 1972 |
| SCASVE | 002 | 0DDB | 2298 | 2275* 2290 |
| SCASV1 | 001 | 0DDA | 2297 | |
| SCA100 | 003 | 0DAC | 2278 | 2280 |
| SCA200 | 003 | 0DAF | 2279 | 2277 |
| SCA250 | 003 | 0DB9 | 2282 | 2293 |
| SCA300 | 003 | 0DBC | 2284 | 2286 |
| SCA400 | 004 | 0DCC | 2289 | 2282 |
| SCA500 | 004 | 0DD6 | 2292 | 2274* 2288 |

TOTAL STATEMENTS IN ERROR IN THIS ASSEMBLY = 0

OL105 I THE CODE LENGTH OF #KWIDT IS 3584 DECIMAL.
 OL103 I TOTAL NUMBER OF LIBRARY SECTORS REQUIRED IS 4
 NAME-#KWIDT,PACK-R1R1R1,UNIT-R1,RETAIN-P,LIBRARY-R,CATEGORY-000

| START ADDRESS | CATEGORY | NAME AND ENTRY | CODE HEXADECIMAL | LENGTH DECIMAL |
|---------------|----------|----------------|------------------|----------------|
|---------------|----------|----------------|------------------|----------------|

| | | | | |
|------|---|--------|------|------|
| 0C00 | 0 | #KWIDT | 0E00 | 3584 |
|------|---|--------|------|------|

OL100 I THE TOTAL CORE USED BY #KWIDT IS 3584 DECIMAL.
 OL101 I THE START CONTROL ADDRESS OF THIS MODULE IS 0C00.
 OL104 I TOTAL NUMBER OF LIBRARY SECTORS REQUIRED IS 15
 NAME-#KWIDT,PACK-R1R1R1,UNIT-R1,RETAIN-P,LIBRARY-O

*

| | | | | |
|------|---|---|--|---|
| 2671 | * | TABLES/WORKAREAS | | * |
| 2672 | * | SLLIST CREARES A BUFFER, SLLINE, WHICH HAS A MAXIMUM LENGTH OF | | * |
| 2673 | * | 210 BYTES, IS DEFINED BY THE USER, AND CONTAINS THE BINARY | | * |
| 2674 | * | REPRESENTATION OF THE NUMBERS IN THE LINE-NUMBER LIST. SINGLE | | * |
| 2675 | * | LINE NUMBERS REQUIRE A TWO-BYTE ENTRY AND LINE NUMBER RANGES | | * |
| 2676 | * | EACH REQUIRE FIVE BYTES (TWO BYTES FOR THE LOW LIMIT LINE NUMBER, | | * |
| 2677 | * | ONE BYTE FOR THE EBCDIC CODE FOR A DASH, AND TWO BYTES FOR THE | | * |
| 2678 | * | HIGH LIMIT LINE NUMBER). AN EOS CODE TERMINATES SLLINE | | * |
| 2679 | * | | | * |

SLLIST - MODULE PROLOGUE

| ERR LOC | OBJECT CODE | ADDR | STMT | SOURCE STATEMENT | VER 15, MOD 00 | 31/05/22 | PAGE 24 |
|---------|-------------|------|------|--|----------------|----------|---------|
| | | 2680 | * | *ATTRIBUTES | | | * |
| | | 2681 | * | SLLIST IS RELOCATABLE | | | * |
| | | 2682 | * | | | | * |
| | | 2683 | * | *CHARACTER CODE DEPENDENCY | | | * |
| | | 2684 | * | THE OPERATION OF THIS MODULE DOES NOT DEPEND ON ANY PARTICULAR | | | * |
| | | 2685 | * | INTERNAL REPRESENTATION OF THE EXTERNAL CHARACTER SET. | | | * |
| | | 2686 | * | | | | * |
| | | 2687 | * | *NOTES | | | * |
| | | 2688 | * | ERROR PROCEDURES | | | * |
| | | 2689 | * | SLLIST RETURNS TO THE CALLING ROUTINE WITH THE @PSR SET TO | | | * |
| | | 2690 | * | 'BRANCH LOW' IF AN ERROR CONDITION IS ENCOUNTERED. | | | * |
| | | 2691 | * | THE APPROPRIATE ERROR CODE WILL BE SET IN \$CAERR. | | | * |
| | | 2692 | * | | | | * |
| | | 2693 | * | REGISTER USAGE | | | * |
| | | 2694 | * | * UPON ENTRY TO SLLIST, REGISTER 2 (@XR) MUST BE POINTING TO | | | * |
| | | 2695 | * | THE 1ST LINE NUMBER TO BE CHECKED. UPON RETURN FROM SLLIST | | | * |
| | | 2696 | * | @XR WILL BE POINTING TO THE INVALID CHARACTER IF AN ERROR IS | | | * |
| | | 2697 | * | DETECTED. TO THE CARRIAGE RETURN CHARACTER IF THE LIST IS | | | * |
| | | 2698 | * | GOOD, OR TO THE NEXT CHARACTER FOLLOWING A VALID LIST IF | | | * |
| | | 2699 | * | SLLIND IS SET TO RETURN (SLLRET MOVED TO SLLIND). | | | * |
| | | 2700 | * | * REGISTER 1 (@BR) IS SAVED UPON ENTRY TO SLLIST AND IS USED | | | * |
| | | 2701 | * | BY SLLIST TO CONTAIN THE CURRENT ADDRESS BEING REFERENCED IN | | | * |
| | | 2702 | * | SLLINE. | | | * |
| | | 2703 | * | * UPON ENTRY TO SLLIST, REGISTER 8 (@ARR) IS STORED AS THE | | | * |
| | | 2704 | * | RETURN ADDRESS TO THE CALLING ROUTING AFTER CHECKING IS | | | * |
| | | 2705 | * | COMPLETED. | | | * |
| | | 2706 | * | | | | * |
| | | 2707 | * | SAVE RESTORED AREAS | | | * |
| | | 2708 | * | NONE | | | * |
| | | 2709 | * | | | | * |
| | | 2710 | * | MODIFICATION CONSIDERATIONS | | | * |
| | | 2711 | * | NONE | | | * |
| | | 2712 | * | | | | * |
| | | 2713 | * | REQUIRED MODULES | | | * |
| | | 2714 | * | * THE FOLLOWING EQUATE MODULES ARE USED IN SLLIST: | | | * |
| | | 2715 | * | * @SYSEQ - COMMON S(STEM ELVES | | | * |
| | | 2716 | * | * @FXDEQ - NUCLEUS FIXED ADDRESS EQUATES | | | * |
| | | 2717 | * | * @ERMEQ - ERROR MESSAGE EQUATES (SELECTED ERROR CODES) | | | * |
| | | 2718 | * | * THE FOLLOWING SOURCE MODULES ARE ALSO USED IN SLLIST: | | | * |
| | | 2719 | * | * SCANIT - DELIMITER SCAN ROUTINE | | | * |
| | | 2720 | * | * C4BIN2 - ROUTINE TO CONVERT DECIMAL TO BINARY | | | * |
| | | 2721 | * | | | | * |
| | | 2722 | * | OTHER | | | * |
| | | 2723 | * | IF THE CALLING ROUTINE DESIRES THAT A LINE-NUMBER LIST BE | | | * |
| | | 2724 | * | CONSIDERED VALID IF IT IS FOLLOWED BY ANOTHER PARAMETER, | | | * |
| | | 2725 | * | SLLRET SHOULD BE MOVED TO SLLRET BEFORE CALLING SLLIST. | | | * |
| | | 2726 | * | | | | * |
| | | 2727 | * | ***** | | | * |

SLLIST - MODULE PROLOGUE

| ERR | LOC | OBJECT | CODE | ADDR | STMT | SOURCE | STATEMENT | VER 15, MOD 00 | 31/05/22 | PAGE 25 |
|-----|------|--------|------|-----------|------|--------|-------------------------------------|----------------|----------|----------------------------------|
| | | | | 0FF6 | 2729 | SLLIST | EQU * | | | ENTRY POINT TO THIS SUBROUTINE |
| | | | | | 2730 | * | | | | |
| | 0FF6 | 34 | 01 | 10DE | 2731 | ST | SLL220+@OP1,@BR | | | SAVE BASE REGISTER |
| | 0FFA | 34 | 08 | 10E2 | 2732 | ST | SLL230+@OP1,@ARR | | | SAVE RETURN ADDRESS |
| | 0FFE | C2 | 01 | 13FE | 2733 | LA | SLLINE-SLLLN2,@BR | | | INITIALIZE SLLINE POINTER |
| | | | | | 2734 | * | | | | |
| | 1002 | C0 | 87 | 0F86 | 2735 | SLL100 | B C4BIN2 | | | CONVERT LINE NO. TO BINARY |
| | 1006 | F2 | 82 | CA | 2736 | JL | SLL210 | | | IF ERROR IN C4BIN2, |
| | | | | | 2737 | * | | | | * CALL ERROR PROG. |
| | 1009 | F2 | 81 | AC | 2738 | JZ | SLL180 | | | CHECK FOR EOS IF NO NUMBER FOUND |
| | | | | | 2739 | * | | | | |
| | | | | | 2740 | * | INTEGER WAS FOUND | | | |
| | | | | | 2741 | * | | | | |
| | 100C | 4C | 01 | 03 0FF0 | 2742 | MVC | SLL003(,@BR),C4BVAL(SLLLN2) | | | MOVE INTEGER TO BFR |
| | 1011 | F2 | 80 | 07 | 2743 | SLL110 | JC SLL115,@NOP+*-* | | | UCB EXCEPT FOR FIRST LINE NO. |
| | 1014 | 3C | 87 | 1012 | 2744 | MVI | SLL110+@Q,@UCB | | | SET OFF 'FIRST' INDR |
| | 1018 | F2 | 87 | 11 | 2745 | J | SLL120 | | | GO CHECK FOR DELIMITERS |
| | 101B | 5D | 01 | 01 03 | 2746 | SLL115 | CLC SLL001(,@BR),SLL003(SLLLN2,@BR) | | | THIS INTG > LAST INTG ? |
| | 101F | F2 | 82 | 0A | 2747 | JL | SLL120 | | | YES, GO CHECK FOR DELIMITERS |
| | 1022 | 3C | 87 | 10B2 | 2748 | MVI | SLL165+@Q,@UCB | | | SET SW TO TAKE ERR IF VALID INTG |
| | 1026 | 0C | 01 | 10CB 0FF4 | 2749 | MVC | SLL200+@OP1(SLLLN2),C4BSAV | | | SET PTR TO THIS NUMBER |
| | 102C | D2 | 01 | 02 | 2750 | SLL120 | LA SLL002(,@BR),@BR | | | POINT BR PTR TO THIS ENTRY |
| | 102F | C0 | 87 | 10E5 | 2751 | B | SCANIT | | | BYPASS BLANKS |
| | 1033 | BD | 60 | 00 | 2752 | CLI | 0(,@XR),SLLDSH | | | CHAR AFTER INTG = '-' ? |
| | 1036 | F2 | 01 | 55 | 2753 | JNE | SLL150 | | | NO, CHECK FOR COMMA |
| | | | | | 2754 | * | | | | |
| | | | | | 2755 | * | LINE NUMBER FOLLOWED BY A DASH | | | |
| | | | | | 2756 | * | | | | |
| | 1039 | E2 | 02 | 01 | 2757 | LA | 1(,@XR),@XR | | | POINT XR PAST DASH |
| | 103C | 0C | 01 | 105F 0FF4 | 2758 | MVC | SLL125+@OP1,C4BSAV(@REGL) | | | SAVE PTR TO FIRST NO. IN RANGE |
| | 1042 | C0 | 87 | 10E5 | 2759 | B | SCANIT | | | BYPASS BLANKS |
| | 1046 | C0 | 87 | 0F86 | 2760 | B | C4BIN2 | | | CONVERT NO. TO BINARY |
| | 104A | F2 | 82 | 86 | 2761 | JL | SLL210 | | | ERR IF MORE THAN 4 DIGITS FOUND |
| | 104D | F2 | 01 | 17 | 2762 | JNZ | SLL130 | | | JUMP IF INTG FOUND AFTER DASH |
| | | | | | 2763 | * | | | | |
| | 1050 | BD | 1E | 00 | 2764 | CLI | 0(,@XR),@EOS | | | IS THIS AN OPEN RANGE ? |
| | 1053 | F2 | 81 | 06 | 2765 | JE | SLL125 | | | YES, SET OPEN RANGE ERR CODE |
| | 1056 | BD | 6B | 00 | 2766 | CLI | 0(,@XR),@COMMA | | | IS THIS AN OPEN RANGE ? |
| | 1059 | F2 | 01 | 65 | 2767 | JNE | SLL195 | | | NO, INV CHAR IN LINE NO. ERROR |
| | | | | | 2768 | * | | | | |
| | 105C | C2 | 02 | 0000 | 2769 | SLL125 | LA *-*,@XR | | | RESTORE XR TO FIRST NO. IN RANGE |
| | 1060 | 3C | 0D | 03CD | 2770 | MVI | \$CAERR,@E123 | | | ERR, UNBALANCED LINE NO. SERIES |
| | 1064 | F2 | 87 | 70 | 2771 | J | SLL215 | | | ERROR EXIT |
| | | | | | 2772 | * | | | | |
| | | | | | 2773 | * | MOVE DASH AND HIGH LIMIT TO SLLINE | | | |
| | | | | | 2774 | * | | | | |
| | 1067 | 7C | 60 | 02 | 2775 | SLL130 | MVI SLL002(,@BR),SLLDSH | | | SET DASH IN SLLINE |
| | 106A | 4C | 01 | 04 0FF0 | 2776 | MVC | SLL003+1(,@BR),C4BVAL(SLLLN2) | | | MOVE IN HIGH LIMIT OF RANGE |
| | 106F | 5D | 01 | 01 04 | 2777 | CLC | SLL001(,@BR),SLL003+1(SLLLN2,@BR) | | | HIGH LIMIT > LOW LIMIT ? |
| | 1073 | F2 | 82 | 11 | 2778 | JL | SLL140 | | | YES, GO INCR POINTER |
| | 1076 | 3D | 87 | 10B2 | 2779 | CLI | SLL165+@Q,@UCB | | | OUT OF ORDER PAIR FOUND ALRDY ? |
| | 107A | F2 | 81 | 0A | 2780 | JE | SLL140 | | | YES, DON'T SET SWITCH AGAIN |
| | 107D | 3C | 87 | 10B2 | 2781 | MVI | SLL165+@Q,@UCB | | | ELSE, SET SW TO TAKE ERR EXIT |
| | 1081 | 0C | 01 | 10CB 0FF4 | 2782 | MVC | SLL200+@OP1(SLLLN2),C4BSAV | | | SET PTR TO SECOND NO. IN RANGE |
| | 1087 | D2 | 01 | 03 | 2783 | SLL140 | LA SLL003(,@BR),@BR | | | INCR PTR TO NEXT ENTRY |
| | 108A | C0 | 87 | 10E5 | 2784 | B | SCANIT | | | BYPASS BLANKS |

SLLIST - MODULE PROLOGUE

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ERR LOC  OBJECT CODE      ADDR STMT SOURCE STATEMENT          VER 15, MOD 00  31/05/22  PAGE  26

108E BD  6B  00          2785 SLL150 CLI   0(,@XR),@COMMA      INTG FOLLOWED BY COMMA ?
1091 F2  01  10          2786          JNE   SLL160          NO, TEST FOR A BLANK
2787 *
2788 *                LINE NUMBER FOLLOWED BY COMMA
2789 *
1094 E2  02  01          2790          LA    1(,@XR),@XR      PT XR PAST COMMA
1097 C0  87  10E5        2791          B     SCANIT          BYPASS BLANKS
109B BD  1E  00          2792          CLI   0(,@XR),@EOS    COMMA FOLLOWED BY EOS ?
109E F2  81  36          2793          JE    SLL215          YES ERR - DANGLING COMMA
10A1 F2  87  0D          2794          J     SLL165          ELSE, GO CHECK INTG ASCENDING
2795 *
10A4 3D  00  1125        2796 SLL160 CLI   SCACNT,@ZERO        WERE ANY DELIMITERS FOUND ?
10A8 F2  01  06          2797          JNZ   SLL165          YES, GO CHECK FOR PROPER ORDER
10AB BD  1E  00          2798          CLI   0(,@XR),@EOS    ELSE, IS XR REF AN EOS
10AE F2  01  10          2799          JNE   SLL195          NO, ERR - INV CHAR IN LINE NO.
10B1 F2  80  14          2800 SLL165 JC    SLL200,@NOP+*-*    UCB IF THIS INTG < LAST INTG
10B4 C0  87  1002        2801          B     SLL100          CHECK NEXT INTG
2802 *
2803 *                INTEGER NOT FOUND BY C4BIN2
2804 *
10B8 7C  FF  02          2805 SLL180 MVI   SLL002(,@BR),@SCTS-1  MOVE AN 'EOS' TO SLLINE
10BB BD  1E  00          2806          CLI   SLL000(,@XR),@EOS  IS NEXT CHAR IN INP LINE EOS ?
10BE F2  81  1A          2807 SLL190 JC    SLL220,@BE+*-*    IF YES OR SLLIND IS ON, RETURN
2808 *
10C1 3C  0B  03CD        2809 SLL195 MVI   $CAERR,@@E120    SET ERR CODE FOR 'NON-NUMERIC
2810 *                * CHAR IN LINE NO. OR INTG'
10C5 F2  87  0B          2811          J     SLL210          RESTORE XR, SET PSR AND RETURN
2812 *
2813 *                ERROR EXIT
2814 *
10C8 C2  02  0000        2815 SLL200 LA    *-*,@XR          PT XR TO CORRECT LINE NUMBER
10CC 3C  0E  03CD        2816          MVI   $CAERR,@@E124    SET ERROR CODE FOR PARAMS NOT
10D0 F2  87  04          2817          J     SLL215          * IN ASCENDING ORDER
10D3 35  02  0FF4        2818 SLL210 L     C4BSAV,@XR          RETURN POINTER TO FIRST OF NO
10D7 35  04  10E4        2819 SLL215 L     SLLBLW,@PSR          SET PSR TO BRANCH LOW
2820 *
2821 *                RETURN TO CALLING PROGRAM
2822 *
10DB C2  01  0000        2823 SLL220 LA    *-*,@BR          RESTORE CALLERS BASE REGISTER
10DF C0  87  0000        2824 SLL230 B     *-*          RETLRN

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SLLIST - MODULE PROLOGUE

| ERR LOC | OBJECT CODE | ADDR | STMT | SOURCE | STATEMENT | VER 15, MOD 00 | 31/05/22 | PAGE 27 |
|---------|-------------|------|------|--------|---------------|----------------|----------|-------------------------------|
| | | 0000 | 2826 | SLL000 | EQU 0 | | | |
| | | | | | | | | DISP OF '0' FOR XR OR PTR |
| | | 0001 | 2827 | SLL001 | EQU 1 | | | |
| | | | | | | | | DISP OF '1' FOR XR OR PTR |
| | | 0002 | 2828 | SLL002 | EQU 2 | | | |
| | | | | | | | | DISP OF '2' FOR XR OR PTR |
| | | 0003 | 2829 | SLL003 | EQU 3 | | | |
| | | | | | | | | DISP OF '3' FOR PTR TO SLLINE |
| | | 0002 | 2830 | SLLLN2 | EQU 2 | | | |
| | | | | | | | | BINARY LENGTH OF TWO BYTES |
| | | 0060 | 2831 | SLLDSH | EQU C'-' | | | |
| | | | | | | | | HYPHEN SEPARATING RANGES |
| | | | 2832 | * | | | | |
| | | 10BF | 2833 | SLLIND | EQU SLL190+@Q | | | |
| | | | | | | | | LOC FOR SETTING SLLRET |
| | | 0087 | 2834 | SLLRET | EQU X'87' | | | |
| | | | | | | | | CODE FOR RETURN IF NOT EOS |
| | | | 2835 | * | | | | |
| | | | 2836 | * | | | | CONSTANTS AND SAVE AREAS |
| | | | 2837 | * | | | | |
| 10E3 | 0082 | 10E4 | 2838 | SLLBLW | DC XL2'82' | | | |
| | | | | | | | | PSR CODE TO BRANCH LOW |
| | | | 2839 | * | | | | |
| | | | 2840 | * | \$CANI | | | |

SCANIT - DELIMETER SCAN MODULE

| ERR LOC | OBJECT CODE | ADDR | STMT | SOURCE STATEMENT | VER 15, MOD 00 | 31/05/22 | PAGE 28 |
|---------|-------------|------|------|--|----------------|----------|---------|
| 2842+ | | | | ***** | | | * |
| 2843+ | | | | COPYRIGHT IBM CORP. 1970 | | | * |
| 2844+ | | | | REFER TO INSTRUCTIONS ON COPYRIGHT NOTICE, 120-2083 | | | * |
| 2845+ | | | | | | | * |
| 2846+ | | | | ***** | | | * |
| 2847+ | | | | STATUS | | | * |
| 2848+ | | | | VERSION 1 MODIFICATION 0 | | | * |
| 2849+ | | | | | | | * |
| 2850+ | | | | FUNCTION | | | * |
| 2851+ | | | | THE FUNCTION OF SCANIT IS TO SCAN PAST VALID DELIMITERS AND | | | * |
| 2852+ | | | | RETURN A POINTER TO THE FIRST CHARACTER THAT'S NOT A DELIMITER. | | | * |
| 2853+ | | | | | | | * |
| 2854+ | | | | ENTRY POINTS | | | * |
| 2855+ | | | | * THE ENTRY POINT IS SCANIT. | | | * |
| 2856+ | | | | * THE CALLING SEQUENCE IS AS FOLLOWS: | | | * |
| 2857+ | | | | B SCANIT | | | * |
| 2858+ | | | | WITH REGISTER 2 (@XR) POINTING TO THE FIRST CHARACTER TO BE | | | * |
| 2859+ | | | | EXAMINED. | | | * |
| 2860+ | | | | | | | * |
| 2861+ | | | | INPUT | | | * |
| 2862+ | | | | NONE | | | * |
| 2863+ | | | | | | | * |
| 2864+ | | | | OUTPUT | | | * |
| 2865+ | | | | NONE | | | * |
| 2866+ | | | | | | | * |
| 2867+ | | | | EXTERNAL REFERENCES | | | * |
| 2868+ | | | | \$CAERR - ERROR CODE SAVE AREA | | | * |
| 2869+ | | | | | | | * |
| 2870+ | | | | EXITS, NORMAL | | | * |
| 2871+ | | | | NORMAL EXIT FROM SCANIT IS TO THE BYTE FOLLOWING THE BRANCH TO | | | * |
| 2872+ | | | | SCANIT IN THE CALLING ROUTINE. THE PSR (REGISTER 4) WILL CONTAIN | | | * |
| 2873+ | | | | A ZERO IF NO DELIMITERS WERE FOUND OR A HIGH CONDITION IF ONE OR | | | * |
| 2874+ | | | | MORE DELIMITERS WERE SCANNED. | | | * |
| 2875+ | | | | | | | * |
| 2876+ | | | | EXITS, ERROR | | | * |
| 2877+ | | | | ERROR EXIT FROM SCANIT IS TO THE BYTE FOLLOWING THE BRANCH TO | | | * |
| 2878+ | | | | SCANIT IN THE CALLING ROUTINE. THE PSR WILL CONTAIN A LOW | | | * |
| 2879+ | | | | CONDITION. | | | * |
| 2880+ | | | | | | | * |
| 2881+ | | | | TABLES/WORKAREAS | | | * |
| 2882+ | | | | * SCACNT - AREA CONTAINING NUMBERS OF DELIMITERS SCANNED | | | * |
| 2883+ | | | | * SCAMMA - LOC WHERE SCACOM MAY BE MOVED IF ONE COMMA IS ALSO | | | * |
| 2884+ | | | | TO BE CONSIDERED A DELIMITER. MOVING SCACOF BACK INTO SCAMMA | | | * |
| 2885+ | | | | INDICATES THAT ONLY BLANKS SHOULD BE CONSIDERED DELIMITERS. | | | * |
| 2886+ | | | | | | | * |
| 2887+ | | | | ATTRIBUTES | | | * |
| 2888+ | | | | RELOCATABLE AND RE-USABLE | | | * |
| 2889+ | | | | | | | * |
| 2890+ | | | | CHARACTER CODE DEPENDENCY | | | * |
| 2891+ | | | | THE OPERATION OF THIS MODULE DOES NOT DEPEND UPON A PARTICULAR | | | * |
| 2892+ | | | | INTERNAL REPRESENTATION OF THE EXTERNAL CHARACTER SET. | | | * |
| 2893+ | | | | | | | * |
| 2894+ | | | | NOTES | | | * |
| 2895+ | | | | ERROR PROCEDURES | | | * |
| 2896+ | | | | THE ONLY ERROR CONDITION DETECTED BY SCANIT IS THE CASE WHERE | | | * |
| 2897+ | | | | A CARRIAGE-RETURN CODE FOLLOWS A COMMA. UPON RETURN TO THE | | | * |

SCANIT - DELIMETER SCAN MODULE

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ERR LOC  OBJECT CODE      ADDR STMT SOURCE STATEMENT                                VER 15, MOD 00  31/05/22  PAGE  29
2898+*      CALLING ROUTINE, @PSR WILL BE SET TO A LOW CONDITION, THE      *
2899+*      ERROR CODE IS SET IN $CAERR, AND MG WILU BE POINTING TO THE      *
2900+*      CARRIAGE-RETURN CHARACTER.                                       *
2901+*      *                                                                    *
2902+*      REGISTER USAGE                                                    *
2903+*      REGISTER 2 (@XR) IS USED AS A POINTER ACROSS THE AREA BEING      *
2904+*      SCANNED FOR DELIMITERS.                                           *
2905+*      *                                                                    *
2906+*      SAVED/RESTORED AREAS                                             *
2907+*      UPON ENTRY TO SCANIT, REGISTER 8 (@ARR) IS SAVED AND USED AS    *
2908+*      THE RETURN ADDRESS.                                              *
2909+*      *                                                                    *
2910+*      MODIFICATION CONSIDERATIONS                                       *
2911+*      NONE                                                                *
2912+*      *                                                                    *
2913+*      REQUIRED MODULES                                                  *
2914+*      * @SYSEQ - COMMON SYSTEM EQUATES                                  *
2915+*      * @FXDEQ - FIXED NUCLEUS ADDRESSES EQUATES                       *
2916+*      *                                                                    *
2917+*      OTHER                                                            *
2918+*      SCANIT IS INITIALIZED TO BYPASS BLANKS ONLY. IF SCACOM IS        *
2919+*      MOVED TO SCAMMA, ONE COMMA WILL BE SCANNED ALONG WITH BLANKS.     *
2920+*      THE INSTRUCTION TO DO THIS IS AS FOLLOWS:                         *
2921+*      MVI    SCAMMA,SCACOM                                              *
2922+*      *                                                                    *
2923+*      TO DROP THE COMMA FROM ITS DELIMITER STATUS, SCACOF SHOULD BE     *
2924+*      MOVED TO SCAMMA, USING THE FOLLOWING INSTRUCTION:                  *
2925+*      MVI    SCAMMA,SCACOF                                              *
2926+*      *                                                                    *
2927+*****

2929+*
2930+*      EQUATES USED IN THIS SUBROUTINE
2931+*
0001 2932+SCAINC EQU    1          TO INCREMENT POINTER
0001 2933+SCACOM EQU   @BNE        SWITCH TO ALLOW SCANNING COMMA
0087 2934+SCACOF EQU   @UCB        SWITCH TO SET OFF THE INDICATON
2935+*      * FOR SCANNING A COMMA
10E5 2936+SCANIT EQU   *          ENTRY POINT TO THIS SUBROUTINE
10E5 34 08 1121 2937+      ST      SCA500+@OP1,@ARR      SAVE RETURN ADDRESS
10E9 34 02 1123 2938+      ST      SCASVE,@XR          SAVE POINTER VALUE
10ED 3C 04 03CD 2939+      MVI    $CAERR,@E110        SET ERROR CODE
10F1 F2 87 03  2940+      J      SCA200          GO TO PROCESS
10F4 E2 02 01  2941+SCA100 LA    SCAINC(,@XR),@XR      INCREMENT POINTER TO NEXT CHAR
10F7 BD 40 00  2942+SCA200 CLI  0(,@XR),@BLANK      IS THIS CHAR BLANK ?
10FA C0 81 10F4 2943+      BE    SCA100          YES, FETCH NEXT ONE
10FE BD 6B 00  2944+      CLI  0(,@XR),@COMMA      IS IT A COMMA ?
1101 F2 87 10  2945+SCA250 JC    SCA400,@UCB        UCS TO RETURN -- OR NOP IF
2946+*      * SCAMMA IS ACTIVE AND CHAR
1104 E2 02 01  2947+SCA300 LA    SCAINC(,@XR),@XR      INCREMENT POINTER TO NEXT CHAR
1107 BD 40 00  2948+      CLI  0(,@XR),@BLANK      IS THIS CHAR A BLANK ?
110A C0 81 1104 2949+      BE    SCA300          YES, FETCH NEXT ONE
110E BD 1F 00  2950+      CLI  0(,@XR),@EOS+1      IS THIS EOS ?
1111 F2 82 0A  2951+      JL    SCA500          IF NOT, SKIP ERROR ROUTINE
1114 34 02 1125 2952+SCA400 ST    SCACNT,@XR      SAVE NEW POINTER VALUE

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SCANIT - DELIMETER SCAN MODULE

| ERR | LOC | OBJECT | CODE | ADDR | STMT | SOURCE | STATEMENT | VER | MOD | DATE | PAGE | NO |
|------|-----|--------|------|------|-------------|--------|------------------|-----|-----|----------|------|-----|
| | | | | | | | | 15, | 00 | 31/05/22 | 30 | |
| 1118 | 0F | 01 | 1125 | 1123 | 2953+ | SLC | SCACNT(2),SCASVE | | | | | |
| | | | | | 2954+* | | | | | | | |
| 111E | C0 | 87 | 0000 | | 2955+SCA500 | B | *-* | | | | | |
| | | | | 1102 | 2956+SCAMMA | EQU | SCA250+@Q | | | | | |
| | | | | | 2957+* | | | | | | | |
| | | | | | 2958+* | | SAVE AREA | | | | | |
| | | | | | 2959+* | | | | | | | |
| | | | | 1122 | 2960+SCASV1 | EQU | * | | | | | |
| 1122 | | | | 1123 | 2961+SCASVE | DS | CL2 | | | | | |
| 1124 | | | | 1125 | 2962+SCACNT | DS | CL2 | | | | | |
| | | | | | 2963+*** | | | | | | | |
| | | | | | | | END OF SCANIT | | | | | *** |

GFINON - GRABBIT BUFFER PRIMER

| ERR LOC | OBJECT CODE | ADDR | STMT | SOURCE STATEMENT | VER 15, MOD 00 | 31/05/22 | PAGE 31 |
|---------|-------------|----------|------|---|----------------|----------|---------|
| 2965 | | | | ***** | | | * |
| 2966 | * | 5703-XM1 | | COPYRIGHT IBM CORP. 1970 | | | * |
| 2967 | * | | | REFER TO INSTRUCTIONS ON COPYRIGHT NOTICE, 120-2083 | | | * |
| 2968 | * | | | | | | * |
| 2969 | | | | ***** | | | * |
| 2970 | | | | *STATUS | | | * |
| 2971 | * | | | VERSION 1 MODIFICATION 0 | | | * |
| 2972 | * | | | | | | * |
| 2973 | | | | *FUNCTION | | | * |
| 2974 | * | | | GFINDN IS DESIGNED FOR USE WITH GRABIT IN ACCESSING A GIVEN LINE | | | * |
| 2975 | * | | | IN THE WORK FILE. THE LINE NUMBER SUPPLIED TO GFILNO IS SEARCHED | | | * |
| 2976 | * | | | ON THROUGH THE FIT. THE DB CONTAINING THIS NUMBER ALONG WITH | | | * |
| 2977 | * | | | THE NEXT LOGICAL DB ARE READ INTO CORE, AND GRABIT IS INITIALIZED | | | * |
| 2978 | * | | | AND CALLED. CONTROL IS THEN RETURNED TO THE CALLING PROGRAM. | | | * |
| 2979 | * | | | | | | * |
| 2980 | | | | *ENTRY POINTS | | | * |
| 2981 | * | | | GFINDN - ENTERED VIA A BRANCH. GFILNO MUST BE PRIMED WITH THE | | | * |
| 2982 | * | | | LINE NUMBER TO BE SEARCHED FOR. | | | * |
| 2983 | * | | | | | | * |
| 2984 | | | | *INPUT | | | * |
| 2985 | * | | | INPUT TO GFINDN IS THE LINE NUMBER SUPPLIED INTO GFILNO FOR THE | | | * |
| 2986 | * | | | SEARCH TO BE MADE. | | | * |
| 2987 | * | | | | | | * |
| 2988 | | | | *OUTPUT | | | * |
| 2989 | * | | | OUTPUT IS THE PRIMED BUFFERS FOR GRABIT, WHICH CONTAIN THE DB | | | * |
| 2990 | * | | | WHICH CONTAINS THE SPECIFIED LINE NUMBER AND THE NEXT LOGICAL | | | * |
| 2991 | * | | | DB. (DATA BLOCK) | | | * |
| 2992 | * | | | | | | * |
| 2993 | | | | *EXTERNAL REFERENCES | | | * |
| 2994 | * | | | \$\$FITS - CORE ADDRESS OF THE FILE INDEX TABLE (FIT) | | | * |
| 2995 | * | | | DL4ICS - FOUR TRACK LOGICAL DISK IOCS | | | * |
| 2996 | * | | | GRABIT - DISK FILE LINE RETRIEVER | | | * |
| 2997 | * | | | GRSRDA - DADDR SAVE AREA PRIMED FOR GRABIT | | | * |
| 2998 | * | | | GRWHAT - GRABIT INDR | | | * |
| 2999 | * | | | GRAFRA - BUFFER ADDR FOR GRABIT | | | * |
| 3000 | * | | | | | | * |
| 3001 | | | | *EXITS, NORMAL | | | * |
| 3002 | * | | | NEXT SEQUENTIAL INSTRUCTION AFTER CALL FROM USING PROGRAM. | | | * |
| 3003 | * | | | | | | * |
| 3004 | | | | *EXITS, ERROR | | | * |
| 3005 | * | | | N/A | | | * |
| 3006 | * | | | | | | * |
| 3007 | | | | *TABLES/WORK AREAS | | | * |
| 3008 | * | | | WORK AREAS AND DPL'S ARE LOCATED AT END OF MODULE. | | | * |
| 3009 | * | | | | | | * |
| 3010 | | | | *ATTRIBUTES | | | * |
| 3011 | * | | | REUSABLE | | | * |
| 3012 | * | | | | | | * |
| 3013 | | | | *CHARACTER CODE DEPMENCY | | | * |
| 3014 | * | | | CHARACTER CODE DEPENDENCY CLASS - A | | | * |
| 3015 | * | | | THE OPERATION OF THIS MOMLE DOES NOT DEPEND UPON A PAATICULAO | | | * |
| 3016 | * | | | INTERNAL REPRESENTATION OR THE EXTERNAL CNANATTEN SET. | | | * |
| 3017 | * | | | | | | * |
| 3018 | | | | *NOTES | | | * |
| 3019 | * | | | ERROR PROCEDURES | | | * |
| 3020 | * | | | N/A | | | * |

GFINON - GRABBIT BUFFER PRIMER

| ERR LOC | OBJECT CODE | ADDR | STMT | SOURCE STATEMENT | VER 15, MOD 00 | 31/05/22 | PAGE 32 |
|---------|-------------|------|------|---|----------------|----------|---------|
| | | 3021 | * | | | | * |
| | | 3022 | * | REGISTER USAGE | | | * |
| | | 3023 | * | INDEX REGISTER 1 (@BR) IS SAVED AND RESTORED AND USED AS A | | | * |
| | | 3024 | * | BASE REGISTER DURING EXECUTION. INDEX REGISTER 2 (@XR) IS | | | * |
| | | 3025 | * | NOT SAVED OR RESTORED BUT IT IS USED TO INDEX THROUGH FIT | | | * |
| | | 3026 | * | IT SEARCHING FOR LINE NUMBER. | | | * |
| | | 3027 | * | | | | * |
| | | 3028 | * | SAVED/RESTORED AREAS | | | * |
| | | 3029 | * | N/A | | | * |
| | | 3030 | * | | | | * |
| | | 3031 | * | MODIFICATION CONSIDERATIONS | | | * |
| | | 3032 | * | \$FINDN IS INTERDEPENDENT WITH GRABIT (IE. WHEN PRIMING | | | * |
| | | 3033 | * | SPECIFIC FIELDS IN GRABIT). ALSO, NOTE 'OTHER'. | | | * |
| | | 3034 | * | | | | * |
| | | 3035 | * | REQUIRED MODULES | | | * |
| | | 3036 | * | @SYSEQ - COMMON SYSTEM SOFTWARE EQUATES | | | * |
| | | 3037 | * | @CANEQ - COMMON CORE LOCATION EQUATES OUTSIDE NUCLEUS | | | * |
| | | 3038 | * | DL4ICS - FOUR TRACK LOGICAL DISK IOCS | | | * |
| | | 3039 | * | GRABIT - FILE LINE RETRIEVER | | | * |
| | | 3040 | * | | | | * |
| | | 3041 | * | OTHER | | | * |
| | | 3042 | * | GFINON CAN BE FORCED TO DETECT THAT FIT DB'S ARE NEVER CON- | | | * |
| | | 3043 | * | TIGUOUS BY MOVING A @NOP TO LABEL GFI200 PLUS @Q. | | | * |
| | | 3044 | * | | | | * |
| | | 3045 | * | ***** | | | * |

GFINON - GRABBIT BUFFER PRIMER

```

ERR LOC  OBJECT CODE      ADDR STMT SOURCE STATEMENT          VER 15, MOD 00  31/05/22  PAGE  33
      3047 *****
      3048 *
      3049 *              GFINON MODULE EQUATES
      3050 *
      3051 *****

0001 3053 GFICT1 EQU  1          COUNT CODE 1
0002 3054 GFICT2 EQU  2          COUNT CODE 2
      3055 *
0000 3056 GFIDS0 EQU  0          DISPLACEMENT OF 0
0001 3057 GFIDS1 EQU  1          DISPLACEMENT OF 1
0002 3058 GFIDS2 EQU  2          DISPLACEMENT OF 2
0003 3059 GFIDS3 EQU  3          DISPLACEMENT OF 3
0004 3060 GFIDS4 EQU  4          DISPLACEMENT OF 4
0005 3061 GFIDS5 EQU  5          DISPLACEMENT OF 5
0008 3062 GFIDS8 EQU  8          DISPLACEMENT OF 8
      3063 *
0001 3064 GFILN1 EQU  1          LENGTH CODE 1
0002 3065 GFILN2 EQU  2          LENGTH OF 2
      3066 *
1200 3067 GRBFR1 EQU  GFIBF1     ADDR OF FIRST CORE BUFFER
      3068 *
1D00 3069 GFITAD EQU  $$FITS     ADDR OF FIT IN CORE
      3070 *
1D08 3071 GFINTY EQU  GFITAD+GFIDS8  ADDR FIRST ENTRY IN FIT
      3072 *
0003 3073 GFIDTA EQU  3          ADDR FIRST FIT DATA SECTOR
      3074 *
      3075 *****

```

GFINON - GRABBIT BUFFER PRIMER

```

ERR LOC  OBJECT CODE      ADDR STMT SOURCE STATEMENT                                VER 15, MOD 00  31/05/22  PAGE  34
3077 *****
3078 *
3079 *          INIT REGS FOR GCLEAR AND SAVE REGS FOR CALLING ROUTINE *
3080 *
3081 *****
3082 *
3083 *GFINDN ENTER BASE=GFIBSE,EXIT=GFIND,@BR,,@ARR
1131 3084      USING GFIBSE,@BR          BASE ADDRESS SPECIFICATION
1126 3085 GFINDN EQU *          MODULE ENTRY POINT
1126 34 01 1187 3086      ST      GFIND0+@OP1,@BR      SAVE @BR
112A C2 01 1131 3087      LA      GFIBSE,@BR          LOAD BASE REGISTER
112E 74 08 5A  3088      ST      GFIND2+@OP1(,@BR),@ARR  SAVE RETURN ADDRESS

3090 *
3091 *          SEARCH FILE INDEX TABLE FOR NUMBER IN GFLINO
3092 *
1131 3093 GFIBSE EQU *
1131 C2 02 1D08 3094      LA      GFINTY,@XR          LOAD XR WITH ADDR OF FIRST
3095 *          * ENTRY IN FIT
1135 E2 02 04  3096 GF1100 LA      GFIDS4(,@XR),@XR      INDEX TO NEXT FIT ENTRY
3097 *
1138 9D 01 02 5C 3098 GF1150 CLC    GFIDS2(GFILN2,@XR),GFILNO(,@BR) THIS DB CONTAIN NUMBER
3099 *          * IN GFILNO ?
113C D0 82 04  3100      BL      GF1100(,@BR)          NO, CHECK NEXT FIT ENTRY

3102 *****
3103 *
3104 *          READ DATA BLOCKS INTO CORE BUFFERS
3105 *
3106 *****
3107 *
113F 7C 03 60  3108      MVI    GFIREDD+@DSAD(,@BR),GFIDTA  INIT DPL FOR 1ST DATA SECTOR
1142 6E 00 60 00 3109      ALC    GFIREDD+@DSAD(GFILN1,@BR),@ZERO(,@XR)  DISP FROM 1ST SECTOR
1146 7C 02 61  3110      MVI    GFIREDD+@DCNT(,@BR),GFICT2  INIT DPL SECTOR COUNT
3111 *
3112 *          CHECK IF DB'S ARE CONTINUOUS
3113 *
1149 6C 00 5D 04 3114      MVC    GFIWRK(GFILN1,@BR),GFIDS4(,@XR)  COMPUTE IF DB'S ARE
114D 6F 00 5D 00 3115      SLC    GFIWRK(GFILN1,@BR),@ZERO(,@XR)  * CONTIGUOUS ON DISK
1151 7D 01 5D  3116      CLI    GFIWRK(,@BR),GFICT1          ARE DB'S CONTIGUOUS FOR READ ?
1154 F2 81 10  3117 GF1200 JC      GF1500,@BE          YES, DB'S ARE CONTIGUOUS
3118 *
3119 *****

```

GFINON - GRABBIT BUFFER PRIMER

```

ERR LOC  OBJECT CODE      ADDR STMT SOURCE STATEMENT                                VER 15, MOD 00  31/05/22  PAGE  35
3121 *****
3122 *
3123 *          PROCESSING OF NON-CONTIGUOUS DATA BLOCKS          *
3124 *
3125 *****
3126 *
1157 7C 03 66          3127      MVI  GFIRAD+@DSAD(,@BR),GFIDTA  MODIFY SECTOR ADDR
115A 6E 00 66 04      3128      ALC  GFIRAD+@DSAD(GFILN1,@BR),GFIDS4(,@XR)
3130 *          DSKL4 GFIRAD          READ SECOND DB
115E C0 87 0D16      3131      B    DL4ICS          PERFORM RELATIVE DISK OP
1162 1195          1163 3132      DC   AL2(GFIRAD)      DPL ADDRESS
3133 *** END OF EXPANSION ***
3134 *
1164 7C 01 61          3135      MVI  GFIRE+@DCNT(,@BR),GFICT1  MODIFY DPL SECTOR COUNT
3137 *GF1500 DSKL4 WIRED          READ DB(S)
1167 C0 87 0D16      3138 GF1500 B    DL4ICS          PERFORM RELATIVE DISK OP
116B 118F          116C 3139      DC   AL2(GFIRE)      DPL ADDRESS
3140 *** END OF EXPANSION ***
3142 *****
3143 *
3144 *          INITIALIZATION FOR GRABIT          *
3145 *
3146 *****
3147 *
116D 1C 01 0F63 60      3148      MVC  GRSRDA(@CADDR),GFIRE+@DSAD(,@BR)  PRIME GRABIT DISK ADDR
1172 3C 00 0F6D          3149      MVI  GRWHAT,@ZERO          PRIME GRWHAT FOR GRABIT
1176 0C 01 0F66 1194      3150      MVC  GRBFRA(@CADDR),GFIBR1      PRIME GRABIT
3151 *
117C C0 87 0DD2          3152      B    GRABIT          GET NEXT STATEMENT
3153 *
1180 3C 01 0F6D          3154      MVI  GRWHAT,GFICT1          SET GRABIT FUNCTION CODE
3156 *****
3157 *
3158 *          END OF ROUTINE PROCESSING          *
3159 *
3160 *****
3161 *
1184 C2 01 0000          3162 *GFIND  EXIT  @BR,,RETURN
1188 C0 87 0000          3163 GFIND0 LA   *-*,@BR          RESTORE @BR
3164 GFIND2 B    *-*          RETURN TO CALING PROGRAM
3165 *** END OF EXPANSION ***

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GFINON - GRABBIT BUFFER PRIMER

```

ERR LOC  OBJECT CODE      ADDR STMT SOURCE STATEMENT                                VER 15, MOD 00  31/05/22  PAGE  36
      3167 *****
      3168 *
      3169 *          DATA CONSTANTS, BUFFERS, AND WORK AREAS
      3170 *
      3171 *****
      3172 *
118C    118D 3173 GFILNO DS   CL2          INPUT AREA FOR LINE NUMPER TO
      3174 *          * BE SEARCHED FOR
118E    118E 3175 GFIWRK DS   CL1          USED TO COMPUTE IF DB'S ARE
      3176 *          * CONTIGUOUS IN CORE
      3177 *          DPL MODIFIED FOR READING OF DATA BLOCKS
      3178 *
      3179 *GFIREDDPL  FUNC=@DGET,DADDR=@WSFIT,CADDR=GFIBF1
118F    118F 3180 GFIREDEQU  *          DISK PARAMETER LIST
118F 01  118F 3181          DC   AL1(@DGET)    REQUESTED FUNCTION
1190 0500 1191 3182          DC   AL2(@WSFIT)   DISK ADDRESS
1192 00    1192 3183          DC   AL1(*-*)    SECTOR COUNT
1193 1200 1194 3184          DC   AL2(GFIBF1)   BUFFER ADDRESS
      3185 *** END OF EXPANSION ***

      1194 3187 GFIBR1 EQU   GFIREDD+@DBFR2    ADDR OF FIRST BUFFER
      3188 *
      3189 *GFIRAD  DPL  FUNC=@DGET,DADDR=@WSFIT,CNT=@B1,CADDR=GFIBF2
1195    1195 3190 GFIRADEQU  *          DISK PARAMETER LIST
1195 01  1195 3191          DC   AL1(@DGET)    REQUESTED FUNCTION
1196 0500 1197 3192          DC   AL2(@WSFIT)   DISK ADDRESS
1198 01    1198 3193          DC   AL1(@B1)    SECTOR COUNT
1199 1300 119A 3194          DC   AL2(GFIBF2)   BUFFER ADDRESS
      3195 *** END OF EXPANSION ***

      119A 3197 GFIBR2 EQU   GFIRAD+@DBFR2    ADDR OF SECOND BUFFER
      3198 *

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GFINON - GRABBIT BUFFER PRIMER

```

ERR LOC  OBJECT CODE      ADDR STMT SOURCE STATEMENT          VER 15, MOD 00  31/05/22  PAGE  37
      3200 *          PATCH
      3201 *****
      3202 *          PATCH AREA 1          *
      3203 *****
      3204 *
      3205 *  CALCULATE AREA LEFT IN THIS SECTOR
      3206 *
1200    119B 3207 $$$L1 EQU  *          START OF PATCH AREA 1
      3208          ORG  *,256,0          SET LOC CNTR TO NEXT SECTOR
119B    1200 3209 $$$T1 EQU  *          DEFINE ADDR OF SCTR BNDRY
      3210          ORG  $$$L1          SET LOC CNTR TO START OF
119B    3211 *          * PATCH AREA
      11FF 3212 $$$S1 DS    CL($$$T1-$$$L1)  PATCH AREA
      3213 *****
      3214 *** END OF EXPANSION ***
      3215          PRINT ON
FFFF    3216          END

TOTAL STATEMENTS IN ERROR IN THIS ASSEMBLY =      0
    
```

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 38

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|-------------|-----|-------|------|-------------------------------|
| \$\$\$\$\$ | 001 | 0C00 | 1918 | |
| \$\$\$\$\$1 | 101 | 11FF | 3212 | |
| \$\$\$\$L1 | 001 | 119B | 3207 | 3210 3212 |
| \$\$\$\$T1 | 001 | 1200 | 3209 | 3212 |
| \$\$\$CMD | 001 | 0020 | 0659 | |
| \$\$\$DAT | 001 | 0040 | 0658 | |
| \$\$\$EPL | 001 | 0091 | 0655 | |
| \$\$\$ERN | 001 | 0080 | 0709 | |
| \$\$\$FUN | 001 | 0010 | 0660 | |
| \$\$\$NLN | 001 | 00A0 | 0705 | |
| \$\$\$STD | 001 | 0081 | 0654 | |
| \$\$BNLN | 001 | 0605 | 0635 | 0637 |
| \$\$CDBS | 001 | 08C0 | 0685 | |
| \$\$CDND | 001 | 0666 | 0644 | |
| \$\$CDRD | 001 | 0890 | 0683 | 0685 |
| \$\$CKEY | 001 | 0603 | 0633 | |
| \$\$CKFF | 001 | 0B3D | 0665 | |
| \$\$COFF | 001 | 0B44 | 0664 | |
| \$\$CSNS | 001 | 209C | 0694 | |
| \$\$DATB | 001 | 0BBF | 0666 | |
| \$\$EOSA | 001 | 0AFE | 0663 | |
| \$\$ERSK | 001 | 1C00 | 0704 | |
| \$\$FITS | 001 | 1D00 | 0712 | 3069 |
| \$\$FLIB | 001 | 06FF | 0711 | |
| \$\$ILEN | 001 | 0601 | 0629 | 0631 0635 |
| \$\$ILHD | 001 | 0600 | 0627 | 0629 |
| \$\$INLN | 001 | 0607 | 0642 | 0644 0646 |
| \$\$INND | 001 | 06FA | 0646 | |
| \$\$KBDT | 001 | 09E1 | 0653 | 0657 |
| \$\$KBSN | 001 | 09E2 | 0657 | 0662 |
| \$\$KLD1 | 001 | 0600 | 0717 | |
| \$\$KLD2 | 001 | 0700 | 0719 | |
| \$\$KLD3 | 001 | 0C00 | 0721 | |
| \$\$LPOS | 001 | 09EB | 0662 | |
| \$\$PCNT | 001 | 07E9 | 0678 | |
| \$\$PLYN | 001 | 2004 | 0692 | |
| \$\$PRES | 001 | 0890 | 0651 | 0653 0663 0664 0665 0666 0683 |
| \$\$PRFL | 001 | 2143 | 0696 | |
| \$\$PRNT | 001 | 0707 | 0672 | 0673 0677 0678 |
| \$\$PRTN | 001 | 0782 | 0673 | |
| \$\$PSIO | 001 | 07CE | 0677 | |
| \$\$PYCD | 001 | 2200 | 0698 | |
| \$\$PYMP | 001 | 2000 | 0690 | 0692 0694 0696 0698 |
| \$\$SLIB | 001 | 1C00 | 0707 | |
| \$\$TPCD | 001 | 0606 | 0637 | 0642 |
| \$\$UPAR | 001 | 0602 | 0631 | 0633 |
| \$\$WSPB | 001 | 1E00 | 0710 | |
| \$\$XIND | 001 | 06FF | 0708 | 0711 |
| \$\$ZERO | 001 | 0000 | 0223 | 0224 0226 0227 0228 0232 0690 |
| \$ABORT | 001 | 0010 | 0336 | |
| \$BASIC | 001 | 0080 | 0394 | 2408 |
| \$BIGCD | 001 | 0080 | 0470 | |
| \$BLDPL | 001 | 0579 | 0603 | 0605 |
| \$BLNOE | 001 | 0569 | 0593 | |
| \$BLOAD | 001 | 0522 | 0584 | 0586 0589 0602 0603 |
| \$BLRTN | 001 | 0550 | 0592 | 0593 |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 39

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|----------|-----|-------|------|--|
| \$BRSV | 001 | 03C5 | 0281 | 0282 |
| \$BSADR | 001 | 0587 | 0608 | 0610 |
| \$BUFPT | 001 | 03E3 | 0489 | 0490 |
| \$CABLD | 001 | 04B4 | 0562 | 0563 |
| \$CAERK | 001 | 0469 | 0539 | 0542 2065 2525 |
| \$CAERR | 001 | 03CD | 0287 | 0289 2059* 2063* 2521* 2540* 2770* 2809* 2816* 2939* |
| \$CAIPL | 001 | 049D | 0558 | 0560 |
| \$CALLI | 001 | 0008 | 0479 | |
| \$CARDI | 001 | 0001 | 0250 | |
| \$CARPL | 001 | 04A1 | 0560 | 0562 2008 |
| \$CIENT | 001 | 0483 | 0549 | 0550 |
| \$CIEXT | 001 | 0480 | 0548 | 0549 |
| \$CIMSK | 001 | 0476 | 0545 | 0548 2016* |
| \$CISUS | 001 | 0496 | 0553 | 0558 |
| \$CLBFR | 001 | 0010 | 0437 | |
| \$CMDKY | 001 | 0008 | 0349 | |
| \$CMODE | 001 | 0002 | 0399 | |
| \$CONFIG | 001 | 03DD | 0462 | 0472 |
| \$CRPOS | 001 | 03E2 | 0488 | 0489 |
| \$CRTAD | 001 | 044D | 0527 | 0528 |
| \$CRTAV | 001 | 0002 | 0343 | |
| \$CRTDN | 001 | 0002 | 0367 | |
| \$CRTIN | 001 | 03D3 | 0364 | 0371 |
| \$CRTNO | 001 | 0004 | 0346 | |
| \$CRTPU | 001 | 0004 | 0368 | |
| \$CRTSP | 001 | 0008 | 0369 | |
| \$CRTUP | 001 | 0001 | 0366 | |
| \$CRUSH | 001 | 0080 | 0475 | |
| \$CSDPL | 001 | 050E | 0574 | 0575 |
| \$C0001 | 001 | 0464 | 0531 | 0537 |
| \$DATE | 001 | 043A | 0512 | 0513 |
| \$DBGUF | 001 | 03E0 | 0474 | 0483 |
| \$DBLOK | 001 | 0001 | 0424 | |
| \$DFDET | 001 | 03E8 | 0495 | 0496 |
| \$DISKN | 001 | 0025 | 0226 | 2230 2334 2431 |
| \$DKERR | 001 | 0008 | 0405 | |
| \$DKSIZ | 001 | 03D7 | 0449 | 0457 0498 |
| \$DK100 | 001 | 0001 | 0451 | |
| \$DK200 | 001 | 0002 | 0452 | |
| \$DK400 | 001 | 0004 | 0453 | |
| \$DK600 | 001 | 0008 | 0454 | |
| \$DK800 | 001 | 0010 | 0455 | |
| \$DPLSV | 001 | 0449 | 0523 | 0525 |
| \$DTNMB | 001 | 0040 | 0270 | |
| \$DTRDR | 001 | 0040 | 0358 | |
| \$ENDNU | 001 | 0600 | 0617 | 0627 0651 0672 0708 0717 0719 0721 |
| \$ERDPL | 001 | 046F | 0542 | 0544 |
| \$ERFIL | 001 | 0040 | 0297 | |
| \$ERHRD | 001 | 0004 | 0429 | 2524 |
| \$ERKEY | 001 | 0080 | 0301 | |
| \$ERLOG | 001 | 0345 | 0231 | |
| \$ERMAD | 001 | 0472 | 0544 | 0545 |
| \$ERPND | 001 | 0004 | 0402 | |
| \$ERRCT | 001 | 03CF | 0303 | |
| \$ERRPG | 001 | 03CE | 0291 | |
| \$ERSFL | 001 | 0035 | 0296 | |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 40

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|---------|-----|-------|------|----------------|
| \$ERSTK | 001 | 0030 | 0294 | |
| \$ER050 | 001 | 0363 | 0232 | |
| \$ER1N2 | 001 | 0050 | 0299 | |
| \$EXADR | 001 | 0517 | 0577 | 0579 |
| \$EXCMD | 001 | 0001 | 0331 | |
| \$EXFTR | 001 | 043B | 0513 | 0518 |
| \$FCIND | 001 | 0010 | 0409 | |
| \$FDIND | 001 | 0040 | 0416 | |
| \$FEARR | 001 | 0004 | 0224 | |
| \$FEMAP | 001 | 0588 | 0610 | 0611 |
| \$FILIB | 001 | 03DA | 0460 | 0461 |
| \$FITIN | 001 | 0010 | 0385 | |
| \$FUIND | 001 | 0020 | 0414 | |
| \$GUFIO | 001 | 0583 | 0607 | 0608 |
| \$GUFIR | 001 | 0008 | 0259 | |
| \$HISTE | 001 | 042E | 0510 | 0511 |
| \$HIST1 | 001 | 0435 | 0511 | 0512 |
| \$HRDER | 001 | 0020 | 0355 | |
| \$INDR1 | 001 | 03D4 | 0371 | 0397 2408 |
| \$INDR2 | 001 | 03D5 | 0397 | 0422 |
| \$INDR3 | 001 | 03D6 | 0422 | 0449 2524* |
| \$INLNO | 001 | 03CF | 0289 | 0291 0303 0310 |
| \$INRPT | 001 | 0020 | 0267 | |
| \$IOIND | 001 | 03D2 | 0338 | 0364 |
| \$IOPGS | 001 | 0010 | 0478 | |
| \$IOYES | 001 | 0002 | 0253 | |
| \$IPLDV | 001 | 05FF | 0614 | 0617 |
| \$IRKEY | 001 | 0020 | 0477 | |
| \$KEYBD | 001 | 03E1 | 0483 | 0488 |
| \$KEYCD | 001 | 03C3 | 0247 | 0281 |
| \$KEYDT | 001 | 0040 | 0391 | |
| \$KE090 | 001 | 00DE | 0227 | |
| \$KE130 | 001 | 01D5 | 0228 | |
| \$KYBSY | 001 | 0010 | 0264 | |
| \$LDRTN | 001 | 0571 | 0602 | |
| \$LEVEL | 001 | 03DF | 0472 | 0474 |
| \$LIST | 001 | 0002 | 0426 | |
| \$LMRGN | 001 | 03C1 | 0242 | 0244 |
| \$LNPTR | 001 | 0080 | 0361 | |
| \$LOADB | 001 | 054A | 0586 | |
| \$LOADR | 001 | 051A | 0579 | 0582 |
| \$LPRIO | 001 | 03EA | 0496 | |
| \$LPROS | 001 | 03E5 | 0491 | 0493 |
| \$LPRP3 | 001 | 03E4 | 0490 | 0491 |
| \$MOUNT | 001 | 0020 | 0440 | |
| \$MPDWN | 001 | 0001 | 0340 | |
| \$NEXTB | 001 | 03E6 | 0493 | 0494 |
| \$NEXTL | 001 | 03E7 | 0494 | 0495 |
| \$NOENB | 001 | 0008 | 0432 | |
| \$NOLST | 001 | 0004 | 0256 | |
| \$NUCBS | 001 | 03C0 | 0239 | 0240 |
| \$NWRKF | 001 | 0080 | 0445 | |
| \$NWRKR | 001 | 0040 | 0442 | |
| \$PASWD | 001 | 042D | 0509 | 0510 |
| \$PAUSD | 001 | 04BA | 0563 | 0565 |
| \$PAUSE | 001 | 0002 | 0333 | |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 41

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|---------|-----|-------|------|----------------|
| \$PGMDT | 001 | 0020 | 0388 | |
| \$PGMST | 001 | 0010 | 0352 | |
| \$PKERT | 001 | 0419 | 0507 | 0509 |
| \$PLST1 | 001 | 0454 | 0528 | 0529 |
| \$PLST2 | 001 | 045B | 0529 | 0530 |
| \$PLST3 | 001 | 0462 | 0530 | 0531 |
| \$PRDEV | 001 | 044B | 0525 | 0527 |
| \$PRESN | 001 | 0002 | 0376 | |
| \$PROCI | 001 | 0001 | 0373 | |
| \$PRPOS | 001 | 03C2 | 0244 | 0247 |
| \$PSDBR | 001 | 04FA | 0568 | |
| \$PSDXR | 001 | 04F2 | 0567 | 0568 |
| \$PSTEP | 001 | 0004 | 0334 | |
| \$PSTMT | 001 | 0008 | 0335 | |
| \$PTCH1 | 001 | 03F5 | 0498 | 0502 |
| \$READY | 001 | 0080 | 0418 | |
| \$REORD | 001 | 0040 | 0476 | |
| \$RLOAD | 001 | 051E | 0582 | 0584 |
| \$RMRGN | 001 | 03C0 | 0240 | 0242 |
| \$RSTR | 001 | 04D6 | 0565 | 0567 0569 0574 |
| \$RUNIT | 001 | 0001 | 0312 | |
| \$SFAID | 001 | 050D | 0570 | |
| \$SPRNT | 001 | 0465 | 0537 | 0539 |
| \$SRTRN | 001 | 04FE | 0569 | 0570 |
| \$STEPT | 001 | 0002 | 0313 | |
| \$SWPCR | 001 | 0511 | 0575 | 0577 |
| \$TABLN | 001 | 03CB | 0284 | 0287 |
| \$TFLOW | 001 | 0008 | 0319 | |
| \$TRACE | 001 | 0004 | 0314 | |
| \$TRALL | 001 | 0010 | 0320 | |
| \$TROVR | 001 | 054E | 0589 | 0592 |
| \$TRUNK | 001 | 0080 | 0272 | |
| \$TRVAR | 001 | 0020 | 0321 | |
| \$UNMSK | 001 | 048D | 0550 | 0553 2053 |
| \$USRDR | 001 | 03DC | 0461 | 0462 |
| \$VMDEF | 001 | 0080 | 0325 | |
| \$VOLF1 | 001 | 03FE | 0504 | 0505 |
| \$VOLF2 | 001 | 040E | 0506 | |
| \$VOLID | 001 | 03F6 | 0502 | 0503 0507 |
| \$VOLR1 | 001 | 03F6 | 0503 | 0504 |
| \$VOLR2 | 001 | 0406 | 0505 | 0506 |
| \$WAITF | 001 | 057F | 0605 | 0607 2335 2432 |
| \$WFDEF | 001 | 0040 | 0519 | |
| \$WFLOK | 001 | 0008 | 0382 | |
| \$WFNME | 001 | 0443 | 0518 | 0523 |
| \$WSIND | 001 | 0004 | 0379 | |
| \$XIND1 | 001 | 03D0 | 0310 | 0329 |
| \$XIND2 | 001 | 03D1 | 0329 | 0338 |
| \$XIND3 | 001 | 03D8 | 0457 | 0460 |
| \$XPREC | 001 | 0040 | 0322 | |
| \$XRSAV | 001 | 03C7 | 0282 | 0284 1926 |
| \$ZTRAD | 001 | 05A2 | 0611 | |
| \$12K | 001 | 0004 | 0466 | |
| \$16CKY | 001 | 0008 | 0468 | |
| \$16K | 001 | 0002 | 0465 | |
| \$22IMP | 001 | 0001 | 0463 | |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 42

| SYMBOL | LEN | VALUE | DEFN |
|--------|-----|-------|------|
| ###BL | 001 | 0000 | 1672 |
| ###CK | 001 | 0000 | 1800 |
| ###CN | 001 | 0000 | 1768 |
| ###CO | 001 | 0000 | 1560 |
| ###CS | 001 | 0000 | 1620 |
| ###DR | 001 | 0000 | 1364 |
| ###ER | 001 | 0000 | 1564 |
| ###FS | 001 | 0000 | 1660 |
| ###IN | 001 | 0000 | 1804 |
| ###PW | 001 | 0000 | 1808 |
| ###RS | 001 | 0000 | 1640 |
| ###SA | 001 | 0000 | 1628 |
| ###SS | 001 | 0000 | 1624 |
| ###VU | 001 | 0600 | 1584 |
| ###0T | 001 | 0700 | 1356 |
| ###1T | 001 | 0000 | 1360 |
| ###BCO | 001 | 0600 | 1372 |
| ###BOV | 001 | 0800 | 1644 |
| ###DPR | 001 | 0700 | 1380 |
| ###DRE | 001 | 0889 | 1396 |
| ###DSP | 001 | 2800 | 1416 |
| ###ECM | 001 | 0C00 | 1676 |
| ###EFK | 001 | 0C00 | 1696 |
| ###ERR | 001 | 0C00 | 1668 |
| ###EXM | 001 | 0C00 | 1556 |
| ###FIL | 001 | 0E00 | 1636 |
| ###FIS | 001 | 0E00 | 1632 |
| ###FML | 001 | 0200 | 1764 |
| ###FMS | 001 | 0200 | 1604 |
| ###GRA | 001 | 0889 | 1528 |
| ###GUF | 001 | 0C00 | 1664 |
| ###INL | 001 | 0600 | 1744 |
| ###INS | 001 | 0600 | 1368 |
| ###KAL | 001 | 0C00 | 1532 |
| ###KCA | 001 | 0C00 | 1748 |
| ###KCH | 001 | 0C00 | 1500 |
| ###KCN | 001 | 0C00 | 1616 |
| ###KCT | 001 | 0C00 | 1468 |
| ###KDE | 001 | 0C00 | 1464 |
| ###KDI | 001 | 0D00 | 1544 |
| ###KDN | 001 | 0C00 | 1452 |
| ###KDO | 001 | 0E00 | 1548 |
| ###KED | 001 | 0C00 | 1388 |
| ###KEN | 001 | 0C00 | 1392 |
| ###KEX | 001 | 0C00 | 1412 |
| ###KGO | 001 | 0C00 | 1384 |
| ###KHE | 001 | 0C00 | 1568 |
| ###KKE | 001 | 0C00 | 1796 |
| ###KLI | 001 | 0C00 | 1472 |
| ###KLL | 001 | 0920 | 1772 |
| ###KLO | 001 | 0C00 | 1476 |
| ###KME | 001 | 0D00 | 1456 |
| ###KMO | 001 | 0C00 | 1400 |
| ###KNA | 001 | 0C00 | 1512 |
| ###KOV | 001 | 0E00 | 1432 |
| ###KPA | 001 | 0C00 | 1408 |

1917

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 43

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|--------|-----|-------|------|------------|
| ###KPO | 001 | 0C00 | 1496 | |
| ###KPR | 001 | 0C00 | 1520 | |
| ###KRE | 001 | 0C00 | 1440 | |
| ###KRL | 001 | 0700 | 1536 | |
| ###KRM | 001 | 0C00 | 1404 | |
| ###KRN | 001 | 0700 | 1424 | |
| ###KRO | 001 | 0D00 | 1428 | |
| ###KRS | 001 | 0C00 | 1752 | |
| ###KRU | 001 | 0C00 | 1448 | |
| ###KRV | 001 | 0800 | 1540 | |
| ###KSA | 001 | 0C00 | 1484 | |
| ###KSE | 001 | 0E00 | 1524 | |
| ###KSO | 001 | 0C20 | 1576 | |
| ###KSS | 001 | 0C00 | 1508 | |
| ###KSV | 001 | 0980 | 1504 | |
| ###KSY | 001 | 0C00 | 1516 | |
| ###KWI | 001 | 0C00 | 1444 | |
| ###KWR | 001 | 0C00 | 1436 | |
| ###LOA | 001 | 0600 | 1376 | |
| ###MIP | 001 | 0C00 | 1572 | |
| ###SDS | 001 | 0C00 | 1684 | |
| ###SFF | 001 | 0E00 | 1688 | |
| ###SFL | 001 | 0F00 | 1680 | |
| ###SFO | 001 | 1500 | 1652 | |
| ###SFS | 001 | 0C00 | 1648 | |
| ###SPA | 001 | 0C00 | 1488 | |
| ###SPO | 001 | 0806 | 1492 | |
| ###SPS | 001 | 0C00 | 1480 | |
| ###STR | 001 | 1600 | 1656 | |
| ###TDC | 001 | 1000 | 1460 | |
| ###TSY | 001 | 1000 | 1420 | |
| ###TVK | 001 | 0FC0 | 1596 | |
| ###UAL | 001 | 0C00 | 1612 | |
| ###UAT | 001 | 0900 | 1708 | |
| ###UCD | 001 | 0900 | 1716 | |
| ###UCN | 001 | 0C00 | 1700 | |
| ###UCP | 001 | 0700 | 1704 | |
| ###UDE | 001 | 0C00 | 1720 | |
| ###UDI | 001 | 0C00 | 1724 | |
| ###UEX | 001 | 0C00 | 1608 | |
| ###UIN | 001 | 0C00 | 1712 | |
| ###UPA | 001 | 0C00 | 1692 | |
| ###UPO | 001 | 0C00 | 1760 | |
| ###UPT | 001 | 0C00 | 1756 | |
| ###VCR | 001 | 2000 | 1552 | |
| ###VLO | 001 | 0600 | 1588 | |
| ###VOD | 001 | 0600 | 1592 | |
| ###VVM | 001 | 0000 | 1600 | |
| ###VXI | 001 | 0600 | 1580 | |
| ###ZDU | 001 | 1100 | 1732 | |
| ###ZLB | 001 | 1100 | 1776 | |
| ###ZLO | 001 | 1100 | 1736 | |
| ###ZLV | 001 | 0F00 | 1792 | |
| ###ZL1 | 001 | 0F00 | 1780 | |
| ###ZL2 | 001 | 0F00 | 1784 | |
| ###ZL3 | 001 | 0C00 | 1788 | |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 44

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|--------|-----|-------|------|------------|
| ###ZTR | 001 | 1000 | 1728 | |
| ###ZUT | 001 | 0C00 | 1740 | |
| ##BLN | 001 | 18D4 | 1671 | |
| ##CKT | 001 | 2118 | 1799 | |
| ##CNF | 001 | 2000 | 1767 | |
| ##COR | 001 | 0800 | 1559 | |
| ##CSA | 001 | 1000 | 1619 | |
| ##DRT | 001 | 0000 | 1363 | |
| ##ERM | 001 | 0928 | 1563 | |
| ##FSP | 001 | 1880 | 1659 | |
| ##INV | 001 | 212C | 1803 | |
| ##PWR | 001 | 2300 | 1807 | |
| ##RSP | 001 | 1780 | 1639 | |
| ##SAV | 001 | 1180 | 1627 | |
| ##SSA | 001 | 1128 | 1623 | |
| ##VUF | 001 | 0B08 | 1583 | |
| ##0TR | 001 | 0000 | 1355 | |
| ##1TR | 001 | 0080 | 1359 | |
| ##@BL | 001 | 0001 | 1673 | |
| ##@CK | 001 | 0004 | 1801 | |
| ##@CN | 001 | 0001 | 1769 | |
| ##@CO | 001 | 003A | 1561 | |
| ##@CS | 001 | 003A | 1621 | |
| ##@DR | 001 | 0008 | 1365 | |
| ##@ER | 001 | 0032 | 1565 | |
| ##@FS | 001 | 0030 | 1661 | |
| ##@IN | 001 | 003A | 1805 | |
| ##@PW | 001 | 00C0 | 1809 | |
| ##@RS | 001 | 0030 | 1641 | |
| ##@SA | 001 | 0108 | 1629 | |
| ##@SS | 001 | 0001 | 1625 | |
| ##@VU | 001 | 0002 | 1585 | |
| ##@0T | 001 | 0018 | 1357 | |
| ##@1T | 001 | 0018 | 1361 | |
| ##@BCO | 001 | 0018 | 1373 | |
| ##@BOV | 001 | 0018 | 1645 | |
| ##@DPR | 001 | 0005 | 1381 | |
| ##@DRE | 001 | 0001 | 1397 | |
| ##@DSP | 001 | 0004 | 1417 | |
| ##@ECM | 001 | 0006 | 1677 | |
| ##@EFK | 001 | 0002 | 1697 | |
| ##@ERR | 001 | 0003 | 1669 | |
| ##@EXM | 001 | 0003 | 1557 | |
| ##@FIL | 001 | 0009 | 1637 | |
| ##@FIS | 001 | 0009 | 1633 | |
| ##@FML | 001 | 0052 | 1765 | |
| ##@FMS | 001 | 0052 | 1605 | |
| ##@GRA | 001 | 0003 | 1529 | |
| ##@GUF | 001 | 0010 | 1665 | |
| ##@INL | 001 | 0010 | 1745 | |
| ##@INS | 001 | 0010 | 1369 | |
| ##@KAL | 001 | 000F | 1533 | |
| ##@KCA | 001 | 000C | 1749 | |
| ##@KCH | 001 | 000C | 1501 | |
| ##@KCN | 001 | 0010 | 1617 | |
| ##@KCT | 001 | 0009 | 1469 | |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 45

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|---------|-----|-------|------|------------|
| #\$@KDE | 001 | 0010 | 1465 | |
| #\$@KDI | 001 | 0005 | 1545 | |
| #\$@KDN | 001 | 0010 | 1453 | |
| #\$@KDO | 001 | 000C | 1549 | |
| #\$@KED | 001 | 000E | 1389 | |
| #\$@KEN | 001 | 0006 | 1393 | |
| #\$@KEX | 001 | 0003 | 1413 | |
| #\$@KGO | 001 | 0002 | 1385 | |
| #\$@KHE | 001 | 000C | 1569 | |
| #\$@KKE | 001 | 0006 | 1797 | |
| #\$@KLI | 001 | 0011 | 1473 | |
| #\$@KLL | 001 | 0001 | 1773 | |
| #\$@KLO | 001 | 0008 | 1477 | |
| #\$@KME | 001 | 0003 | 1457 | |
| #\$@KMO | 001 | 0004 | 1401 | |
| #\$@KNA | 001 | 0008 | 1513 | |
| #\$@KOV | 001 | 0009 | 1433 | |
| #\$@KPA | 001 | 0005 | 1409 | |
| #\$@KPO | 001 | 000D | 1497 | |
| #\$@KPR | 001 | 0009 | 1521 | |
| #\$@KRE | 001 | 0002 | 1441 | |
| #\$@KRL | 001 | 0004 | 1537 | |
| #\$@KRM | 001 | 0003 | 1405 | |
| #\$@KRN | 001 | 0003 | 1425 | |
| #\$@KRO | 001 | 000A | 1429 | |
| #\$@KRS | 001 | 000A | 1753 | |
| #\$@KRU | 001 | 0003 | 1449 | |
| #\$@KRV | 001 | 000D | 1541 | |
| #\$@KSA | 001 | 0011 | 1485 | |
| #\$@KSE | 001 | 0004 | 1525 | |
| #\$@KSO | 001 | 0005 | 1577 | |
| #\$@KSS | 001 | 000B | 1509 | |
| #\$@KSV | 001 | 0002 | 1505 | |
| #\$@KSY | 001 | 000F | 1517 | |
| #\$@KWI | 001 | 0002 | 1445 | |
| #\$@KWR | 001 | 0002 | 1437 | |
| #\$@LOA | 001 | 0013 | 1377 | |
| #\$@MIP | 001 | 000D | 1573 | |
| #\$@SDS | 001 | 0004 | 1685 | |
| #\$@SFF | 001 | 0008 | 1689 | |
| #\$@SFL | 001 | 0005 | 1681 | |
| #\$@SFO | 001 | 0003 | 1653 | |
| #\$@SFS | 001 | 0011 | 1649 | |
| #\$@SPA | 001 | 0004 | 1489 | |
| #\$@SPO | 001 | 0003 | 1493 | |
| #\$@SPS | 001 | 0001 | 1481 | |
| #\$@STR | 001 | 0002 | 1657 | |
| #\$@TDC | 001 | 0003 | 1461 | |
| #\$@TSY | 001 | 0003 | 1421 | |
| #\$@TVK | 001 | 0001 | 1597 | |
| #\$@UAL | 001 | 0011 | 1613 | |
| #\$@UAT | 001 | 000C | 1709 | |
| #\$@UCD | 001 | 000B | 1717 | |
| #\$@UCN | 001 | 0009 | 1701 | |
| #\$@UCP | 001 | 000F | 1705 | |
| #\$@UDE | 001 | 000E | 1721 | |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 46

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|---------|-----|-------|------|------------|
| #\$@UDI | 001 | 0008 | 1725 | |
| #\$@UEX | 001 | 000E | 1609 | |
| #\$@UIN | 001 | 000F | 1713 | |
| #\$@UPA | 001 | 0004 | 1693 | |
| #\$@UPO | 001 | 0005 | 1761 | |
| #\$@UPT | 001 | 0012 | 1757 | |
| #\$@VCR | 001 | 0008 | 1553 | |
| #\$@VLO | 001 | 0002 | 1589 | |
| #\$@VOD | 001 | 0016 | 1593 | |
| #\$@VVM | 001 | 0030 | 1601 | |
| #\$@VXI | 001 | 0002 | 1581 | |
| #\$@ZDU | 001 | 0008 | 1733 | |
| #\$@ZLB | 001 | 0002 | 1777 | |
| #\$@ZLO | 001 | 000C | 1737 | |
| #\$@ZLV | 001 | 0006 | 1793 | |
| #\$@ZL1 | 001 | 0007 | 1781 | |
| #\$@ZL2 | 001 | 000D | 1785 | |
| #\$@ZL3 | 001 | 000A | 1789 | |
| #\$@ZTR | 001 | 0001 | 1729 | |
| #\$@ZUT | 001 | 0014 | 1741 | |
| #\$BCOM | 001 | 0080 | 1371 | |
| #\$BOLV | 001 | 1780 | 1643 | |
| #\$DPRI | 001 | 014C | 1379 | |
| #\$DREA | 001 | 0200 | 1395 | |
| #\$DSPL | 001 | 0240 | 1415 | |
| #\$ECMA | 001 | 1900 | 1675 | |
| #\$EFKE | 001 | 1990 | 1695 | |
| #\$ERRP | 001 | 18C0 | 1667 | |
| #\$EXMS | 001 | 07D4 | 1555 | |
| #\$FILN | 001 | 1724 | 1635 | |
| #\$FIST | 001 | 1700 | 1631 | |
| #\$FMLN | 001 | 1E00 | 1763 | |
| #\$FMST | 001 | 0D00 | 1603 | |
| #\$GRAP | 001 | 0690 | 1527 | |
| #\$GUFU | 001 | 1880 | 1663 | |
| #\$INLN | 001 | 1C84 | 1743 | |
| #\$INST | 001 | 0020 | 1367 | |
| #\$KALL | 001 | 06A4 | 1531 | |
| #\$KCAL | 001 | 1CC4 | 1747 | |
| #\$KCHA | 001 | 053C | 1499 | |
| #\$KCND | 001 | 0F80 | 1615 | |
| #\$KCTL | 001 | 03BC | 1467 | |
| #\$KDEL | 001 | 035C | 1463 | |
| #\$KDIS | 001 | 0744 | 1543 | |
| #\$KDNT | 001 | 0300 | 1451 | |
| #\$KDOV | 001 | 0780 | 1547 | |
| #\$KEDI | 001 | 0188 | 1387 | |
| #\$KENA | 001 | 01C4 | 1391 | |
| #\$KEXT | 001 | 0234 | 1411 | |
| #\$KGOS | 001 | 0180 | 1383 | |
| #\$KHEL | 001 | 0A30 | 1567 | |
| #\$KKEY | 001 | 2100 | 1795 | |
| #\$KLIS | 001 | 0400 | 1471 | |
| #\$KLLA | 001 | 2004 | 1771 | |
| #\$KLOG | 001 | 0444 | 1475 | |
| #\$KMER | 001 | 030C | 1455 | |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 47

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|---------|-----|-------|------|------------|
| #\$KMOU | 001 | 0204 | 1399 | |
| #\$KNAM | 001 | 05C0 | 1511 | |
| #\$KOVN | 001 | 0290 | 1431 | |
| #\$KPAS | 001 | 0220 | 1407 | |
| #\$KPOO | 001 | 0508 | 1495 | |
| #\$KPRT | 001 | 063C | 1519 | |
| #\$KREA | 001 | 02BC | 1439 | |
| #\$KRLA | 001 | 0700 | 1535 | |
| #\$KRMO | 001 | 0214 | 1403 | |
| #\$KRNU | 001 | 0280 | 1423 | |
| #\$KROV | 001 | 028C | 1427 | |
| #\$KRSU | 001 | 1D24 | 1751 | |
| #\$KRUN | 001 | 02CC | 1447 | |
| #\$KRVL | 001 | 0710 | 1539 | |
| #\$KSAV | 001 | 0488 | 1483 | |
| #\$KSET | 001 | 0680 | 1523 | |
| #\$KSOV | 001 | 0AC8 | 1575 | |
| #\$KSSP | 001 | 0594 | 1507 | |
| #\$KSVL | 001 | 058C | 1503 | |
| #\$KSYM | 001 | 0600 | 1515 | |
| #\$KWID | 001 | 02C4 | 1443 | |
| #\$KWRI | 001 | 02B4 | 1435 | |
| #\$LOAD | 001 | 0100 | 1375 | |
| #\$MIPP | 001 | 0A80 | 1571 | |
| #\$SDSY | 001 | 192C | 1683 | |
| #\$SFFI | 001 | 193C | 1687 | |
| #\$SFLO | 001 | 1918 | 1679 | |
| #\$SFOV | 001 | 1844 | 1651 | |
| #\$SFSY | 001 | 1800 | 1647 | |
| #\$SPAC | 001 | 04CC | 1487 | |
| #\$SPOV | 001 | 04DC | 1491 | |
| #\$SPSY | 001 | 0484 | 1479 | |
| #\$STRO | 001 | 1850 | 1655 | |
| #\$TDCK | 001 | 0350 | 1459 | |
| #\$TSYK | 001 | 0250 | 1419 | |
| #\$TVKB | 001 | 0BAC | 1595 | |
| #\$UALL | 001 | 0F00 | 1611 | |
| #\$UATR | 001 | 1A38 | 1707 | |
| #\$UCDI | 001 | 1AD8 | 1715 | |
| #\$UCNF | 001 | 19B8 | 1699 | |
| #\$UCPL | 001 | 19DC | 1703 | |
| #\$UDEL | 001 | 1B24 | 1719 | |
| #\$UDIS | 001 | 1B5C | 1723 | |
| #\$UEXL | 001 | 0EA8 | 1607 | |
| #\$UINI | 001 | 1A88 | 1711 | |
| #\$UPAC | 001 | 1980 | 1691 | |
| #\$UPOV | 001 | 1D24 | 1759 | |
| #\$UPTF | 001 | 1D5C | 1755 | |
| #\$VCRT | 001 | 07B4 | 1551 | |
| #\$VLOA | 001 | 0B80 | 1587 | |
| #\$VODK | 001 | 0B88 | 1591 | |
| #\$VVMR | 001 | 0C00 | 1599 | |
| #\$VXIT | 001 | 0B00 | 1579 | |
| #\$ZDUM | 001 | 1BA4 | 1731 | |
| #\$ZLBM | 001 | 2008 | 1775 | |
| #\$ZLOA | 001 | 1BC4 | 1735 | |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 48

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|---------|-----|-------|------|------------|
| #\$ZLVR | 001 | 20B0 | 1791 | |
| #\$ZL1M | 001 | 2010 | 1779 | |
| #\$ZL2M | 001 | 2030 | 1783 | |
| #\$ZL3M | 001 | 2088 | 1787 | |
| #\$ZTRA | 001 | 1B9C | 1727 | |
| #\$ZUTM | 001 | 1C14 | 1739 | |
| #ENAB | 001 | 0C07 | 1921 | |
| #KENAB | 001 | 0000 | 0001 | |
| @@E001 | 001 | 0000 | 1259 | 1261 |
| @@E003 | 001 | 0001 | 1261 | 1263 |
| @@E004 | 001 | 0002 | 1263 | 1265 |
| @@E005 | 001 | 0003 | 1265 | 1267 |
| @@E006 | 001 | 0004 | 1267 | 1269 |
| @@E007 | 001 | 0005 | 1269 | 1271 |
| @@E008 | 001 | 0006 | 1271 | 1273 |
| @@E009 | 001 | 0007 | 1273 | 1275 |
| @@E010 | 001 | 0008 | 1275 | 1277 |
| @@E011 | 001 | 0009 | 1277 | 1279 |
| @@E012 | 001 | 000A | 1279 | 1281 |
| @@E013 | 001 | 000B | 1281 | 1283 |
| @@E014 | 001 | 000C | 1283 | 1285 |
| @@E015 | 001 | 000D | 1285 | 1287 |
| @@E016 | 001 | 000E | 1287 | 1289 |
| @@E017 | 001 | 000F | 1289 | 1291 |
| @@E018 | 001 | 0010 | 1291 | 1293 |
| @@E019 | 001 | 0011 | 1293 | 1295 |
| @@E020 | 001 | 0012 | 1295 | 1297 |
| @@E021 | 001 | 0013 | 1297 | 1299 |
| @@E023 | 001 | 0014 | 1299 | 1301 |
| @@E024 | 001 | 0015 | 1301 | 1303 |
| @@E025 | 001 | 0016 | 1303 | 1305 |
| @@E026 | 001 | 0017 | 1305 | 1307 |
| @@E027 | 001 | 0018 | 1307 | 1309 |
| @@E028 | 001 | 0019 | 1309 | 1311 |
| @@E029 | 001 | 001A | 1311 | 1313 |
| @@E030 | 001 | 001B | 1313 | 1315 |
| @@E031 | 001 | 001C | 1315 | 1317 |
| @@E032 | 001 | 001D | 1317 | 1319 |
| @@E035 | 001 | 001E | 1319 | 1321 |
| @@E036 | 001 | 001F | 1321 | 1323 |
| @@E037 | 001 | 0020 | 1323 | 1325 |
| @@E038 | 001 | 0021 | 1325 | 1327 |
| @@E039 | 001 | 0022 | 1327 | 1329 |
| @@E040 | 001 | 0023 | 1329 | 1331 |
| @@E041 | 001 | 0024 | 1331 | 1333 |
| @@E042 | 001 | 0025 | 1333 | 1335 |
| @@E043 | 001 | 0026 | 1335 | 1337 |
| @@E044 | 001 | 0027 | 1337 | 1339 |
| @@E045 | 001 | 0028 | 1339 | 1341 |
| @@E046 | 001 | 0029 | 1341 | 1343 |
| @@E060 | 001 | 002A | 1343 | 1345 |
| @@E080 | 001 | 002B | 1345 | |
| @@E100 | 001 | 0000 | 0731 | 0733 |
| @@E101 | 001 | 0001 | 0733 | 0735 |
| @@E102 | 001 | 0002 | 0735 | 0737 |
| @@E103 | 001 | 0003 | 0737 | 0739 |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 49

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|--------|-----|-------|------|------------|
| @@E110 | 001 | 0004 | 0739 | 0741 2939 |
| @@E112 | 001 | 0005 | 0741 | 0743 |
| @@E113 | 001 | 0006 | 0743 | 0745 |
| @@E114 | 001 | 0007 | 0745 | 0747 |
| @@E115 | 001 | 0008 | 0747 | 0749 |
| @@E116 | 001 | 0009 | 0749 | 0751 |
| @@E117 | 001 | 000A | 0751 | 0753 |
| @@E120 | 001 | 000B | 0753 | 0755 2809 |
| @@E122 | 001 | 000C | 0755 | 0757 2540 |
| @@E123 | 001 | 000D | 0757 | 0759 2770 |
| @@E124 | 001 | 000E | 0759 | 0761 2816 |
| @@E129 | 001 | 000F | 0761 | 0763 |
| @@E130 | 001 | 0010 | 0763 | 0765 |
| @@E131 | 001 | 0011 | 0765 | 0767 |
| @@E133 | 001 | 0012 | 0767 | 0769 |
| @@E134 | 001 | 0013 | 0769 | 0771 |
| @@E135 | 001 | 0014 | 0771 | 0773 |
| @@E136 | 001 | 0015 | 0773 | 0775 |
| @@E137 | 001 | 0016 | 0775 | 0777 2063 |
| @@E138 | 001 | 0017 | 0777 | 0779 |
| @@E139 | 001 | 0018 | 0779 | 0781 2059 |
| @@E142 | 001 | 0019 | 0781 | 0783 |
| @@E143 | 001 | 001A | 0783 | 0785 |
| @@E150 | 001 | 001B | 0785 | 0787 |
| @@E151 | 001 | 001C | 0787 | 0789 |
| @@E160 | 001 | 001D | 0789 | 0791 |
| @@E162 | 001 | 001E | 0791 | 0793 |
| @@E163 | 001 | 001F | 0793 | 0795 |
| @@E164 | 001 | 0020 | 0795 | 0797 |
| @@E200 | 001 | 0021 | 0797 | 0799 |
| @@E205 | 001 | 0022 | 0799 | 0801 |
| @@E210 | 001 | 0023 | 0801 | 0803 |
| @@E211 | 001 | 0024 | 0803 | 0805 |
| @@E212 | 001 | 0025 | 0805 | 0807 |
| @@E213 | 001 | 0026 | 0807 | 0809 |
| @@E215 | 001 | 0027 | 0809 | 0811 |
| @@E216 | 001 | 0028 | 0811 | 0813 |
| @@E217 | 001 | 0029 | 0813 | 0815 |
| @@E220 | 001 | 002A | 0815 | 0817 |
| @@E221 | 001 | 002B | 0817 | 0819 |
| @@E222 | 001 | 002C | 0819 | 0821 |
| @@E223 | 001 | 002D | 0821 | 0823 |
| @@E225 | 001 | 002E | 0823 | 0825 |
| @@E226 | 001 | 002F | 0825 | 0827 |
| @@E227 | 001 | 0030 | 0827 | 0829 |
| @@E228 | 001 | 0031 | 0829 | 0831 |
| @@E229 | 001 | 0032 | 0831 | 0833 |
| @@E230 | 001 | 0033 | 0833 | 0835 |
| @@E232 | 001 | 0034 | 0835 | 0837 |
| @@E234 | 001 | 0035 | 0837 | 0839 |
| @@E237 | 001 | 0036 | 0839 | 0841 |
| @@E240 | 001 | 0037 | 0841 | 0843 |
| @@E241 | 001 | 0038 | 0843 | 0845 |
| @@E242 | 001 | 0039 | 0845 | 0847 |
| @@E248 | 001 | 003A | 0847 | 0849 |
| @@E249 | 001 | 003B | 0849 | 0851 |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 50

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|--------|-----|-------|------|------------|
| @@E250 | 001 | 003C | 0851 | 0853 |
| @@E251 | 001 | 003D | 0853 | 0855 |
| @@E252 | 001 | 003E | 0855 | 0857 |
| @@E253 | 001 | 003F | 0857 | 0859 |
| @@E254 | 001 | 0040 | 0859 | 0861 |
| @@E255 | 001 | 0041 | 0861 | 0863 |
| @@E256 | 001 | 0042 | 0863 | 0865 |
| @@E300 | 001 | 0043 | 0865 | 0867 |
| @@E301 | 001 | 0044 | 0867 | 0869 |
| @@E302 | 001 | 0045 | 0869 | 0871 |
| @@E303 | 001 | 0046 | 0871 | 0873 |
| @@E304 | 001 | 0047 | 0873 | 0875 |
| @@E305 | 001 | 0048 | 0875 | 0877 |
| @@E308 | 001 | 0049 | 0877 | 0879 |
| @@E310 | 001 | 004A | 0879 | 0881 |
| @@E315 | 001 | 004B | 0881 | 0883 |
| @@E316 | 001 | 004C | 0883 | 0885 |
| @@E320 | 001 | 004D | 0885 | 0887 |
| @@E325 | 001 | 004E | 0887 | 0889 |
| @@E330 | 001 | 004F | 0889 | 0891 |
| @@E335 | 001 | 0050 | 0891 | 0893 |
| @@E338 | 001 | 0051 | 0893 | 0895 |
| @@E340 | 001 | 0052 | 0895 | 0897 |
| @@E350 | 001 | 0053 | 0897 | 0899 |
| @@E351 | 001 | 0054 | 0899 | 0901 |
| @@E352 | 001 | 0055 | 0901 | 0903 |
| @@E360 | 001 | 0056 | 0903 | 0905 |
| @@E361 | 001 | 0057 | 0905 | 0907 |
| @@E362 | 001 | 0058 | 0907 | 0909 |
| @@E371 | 001 | 0059 | 0909 | 0911 |
| @@E380 | 001 | 005A | 0911 | 0913 |
| @@E390 | 001 | 005B | 0913 | 0915 |
| @@E400 | 001 | 005C | 0915 | 0917 |
| @@E410 | 001 | 005D | 0917 | 0919 |
| @@E415 | 001 | 005E | 0919 | 0921 |
| @@E417 | 001 | 005F | 0921 | 0923 |
| @@E420 | 001 | 0060 | 0923 | 0925 |
| @@E430 | 001 | 0061 | 0925 | 0927 |
| @@E432 | 001 | 0062 | 0927 | 0929 |
| @@E433 | 001 | 0063 | 0929 | 0931 |
| @@E450 | 001 | 0064 | 0931 | 0933 |
| @@E451 | 001 | 0065 | 0933 | 0935 |
| @@E460 | 001 | 0066 | 0935 | 0937 |
| @@E461 | 001 | 0067 | 0937 | 0939 |
| @@E464 | 001 | 0068 | 0939 | 0941 |
| @@E465 | 001 | 0069 | 0941 | 0943 |
| @@E466 | 001 | 006A | 0943 | 0945 |
| @@E467 | 001 | 006B | 0945 | 0947 |
| @@E469 | 001 | 006C | 0947 | 0949 |
| @@E470 | 001 | 006D | 0949 | 0951 |
| @@E471 | 001 | 006E | 0951 | 0953 |
| @@E473 | 001 | 006F | 0953 | 0955 |
| @@E474 | 001 | 0070 | 0955 | 0957 |
| @@E475 | 001 | 0071 | 0957 | 0959 |
| @@E476 | 001 | 0072 | 0959 | 0961 |
| @@E477 | 001 | 0073 | 0961 | 0963 |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 51

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|--------|-----|-------|------|------------|
| @@E478 | 001 | 0074 | 0963 | 0965 |
| @@E479 | 001 | 0075 | 0965 | 0967 |
| @@E480 | 001 | 0076 | 0967 | 0969 |
| @@E481 | 001 | 0077 | 0969 | 0971 |
| @@E482 | 001 | 0078 | 0971 | 0973 |
| @@E483 | 001 | 0079 | 0973 | 0975 |
| @@E484 | 001 | 007A | 0975 | 0977 |
| @@E485 | 001 | 007B | 0977 | 0979 |
| @@E486 | 001 | 007C | 0979 | 0981 |
| @@E487 | 001 | 007D | 0981 | 0983 |
| @@E488 | 001 | 007E | 0983 | 0985 |
| @@E489 | 001 | 007F | 0985 | 0987 |
| @@E490 | 001 | 0080 | 0987 | 0989 |
| @@E491 | 001 | 0081 | 0989 | 0991 |
| @@E492 | 001 | 0082 | 0991 | 0993 |
| @@E493 | 001 | 0083 | 0993 | 0995 |
| @@E494 | 001 | 0084 | 0995 | 0997 |
| @@E495 | 001 | 0085 | 0997 | 0999 |
| @@E496 | 001 | 0086 | 0999 | 1001 |
| @@E497 | 001 | 0087 | 1001 | 1003 |
| @@E498 | 001 | 0088 | 1003 | 1005 |
| @@E500 | 001 | 0089 | 1005 | 1007 |
| @@E501 | 001 | 008A | 1007 | 1009 |
| @@E530 | 001 | 008B | 1009 | 1011 |
| @@E531 | 001 | 008C | 1011 | 1013 |
| @@E535 | 001 | 008D | 1013 | 1015 |
| @@E540 | 001 | 008E | 1015 | 1017 |
| @@E541 | 001 | 008F | 1017 | 1019 |
| @@E542 | 001 | 0090 | 1019 | 1021 |
| @@E543 | 001 | 0091 | 1021 | 1023 |
| @@E544 | 001 | 0092 | 1023 | 1025 |
| @@E545 | 001 | 0093 | 1025 | 1027 |
| @@E546 | 001 | 0094 | 1027 | 1029 |
| @@E547 | 001 | 0095 | 1029 | 1031 |
| @@E548 | 001 | FFFF | 1235 | |
| @@E549 | 001 | 0096 | 1031 | 1033 |
| @@E550 | 001 | 0097 | 1033 | 1035 2336 |
| @@E551 | 001 | 0098 | 1035 | 1037 2521 |
| @@E552 | 001 | 0099 | 1037 | 1039 |
| @@E553 | 001 | 009A | 1039 | 1041 |
| @@E554 | 001 | 009B | 1041 | 1043 |
| @@E555 | 001 | 009C | 1043 | 1045 |
| @@E556 | 001 | 009D | 1045 | 1047 |
| @@E558 | 001 | 009E | 1047 | 1049 |
| @@E570 | 001 | 009F | 1049 | 1051 |
| @@E571 | 001 | 00A0 | 1051 | 1053 |
| @@E572 | 001 | 00A1 | 1053 | 1055 |
| @@E573 | 001 | 00A2 | 1055 | 1057 |
| @@E574 | 001 | 00A3 | 1057 | 1059 |
| @@E575 | 001 | FFFF | 1237 | |
| @@E578 | 001 | 00A4 | 1059 | 1061 |
| @@E579 | 001 | FFFF | 1239 | |
| @@E580 | 001 | FFFF | 1241 | |
| @@E585 | 001 | 00A5 | 1061 | 1063 |
| @@E595 | 001 | FFFF | 1243 | |
| @@E597 | 001 | FFFF | 1245 | |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 52

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|--------|-----|-------|------|------------|
| @@E598 | 001 | FFFF | 1247 | |
| @@E600 | 001 | 00A6 | 1063 | 1065 |
| @@E601 | 001 | 00A7 | 1065 | 1067 |
| @@E602 | 001 | 00A8 | 1067 | 1069 |
| @@E603 | 001 | 00A9 | 1069 | 1071 |
| @@E604 | 001 | 00AA | 1071 | 1073 |
| @@E606 | 001 | 00AB | 1073 | 1075 |
| @@E607 | 001 | 00AC | 1075 | 1077 |
| @@E608 | 001 | 00AD | 1077 | 1079 |
| @@E609 | 001 | 00AE | 1079 | 1081 |
| @@E610 | 001 | 00AF | 1081 | 1083 |
| @@E611 | 001 | 00B0 | 1083 | 1085 |
| @@E612 | 001 | 00B1 | 1085 | 1087 |
| @@E613 | 001 | 00B2 | 1087 | 1089 |
| @@E614 | 001 | 00B3 | 1089 | 1091 |
| @@E700 | 001 | 00B4 | 1091 | 1093 |
| @@E701 | 001 | 00B5 | 1093 | 1095 |
| @@E710 | 001 | 00B6 | 1095 | 1097 |
| @@E712 | 001 | 00B7 | 1097 | 1099 |
| @@E713 | 001 | 00B8 | 1099 | 1101 |
| @@E714 | 001 | 00B9 | 1101 | 1103 |
| @@E715 | 001 | 00BA | 1103 | 1105 |
| @@E716 | 001 | 00BB | 1105 | 1107 |
| @@E717 | 001 | 00BC | 1107 | 1109 |
| @@E718 | 001 | 00BD | 1109 | 1111 |
| @@E720 | 001 | 00BE | 1111 | 1113 |
| @@E721 | 001 | 00BF | 1113 | 1115 |
| @@E723 | 001 | 00C0 | 1115 | 1117 |
| @@E724 | 001 | 00C1 | 1117 | 1119 |
| @@E725 | 001 | 00C2 | 1119 | 1121 |
| @@E726 | 001 | 00C3 | 1121 | 1123 |
| @@E727 | 001 | 00C4 | 1123 | 1125 |
| @@E728 | 001 | 00C5 | 1125 | 1127 |
| @@E729 | 001 | 00C6 | 1127 | 1129 |
| @@E730 | 001 | 00C7 | 1129 | 1131 |
| @@E732 | 001 | 00C8 | 1131 | 1133 |
| @@E752 | 001 | 00C9 | 1133 | 1135 |
| @@E753 | 001 | 00CA | 1135 | 1137 |
| @@E754 | 001 | 00CB | 1137 | 1139 |
| @@E755 | 001 | 00CC | 1139 | 1141 |
| @@E756 | 001 | 00CD | 1141 | 1143 |
| @@E757 | 001 | 00CE | 1143 | 1145 |
| @@E758 | 001 | 00CF | 1145 | 1147 |
| @@E759 | 001 | 00D0 | 1147 | 1149 |
| @@E760 | 001 | 00D1 | 1149 | 1151 |
| @@E761 | 001 | 00D2 | 1151 | 1153 |
| @@E762 | 001 | 00D3 | 1153 | 1155 |
| @@E763 | 001 | 00D4 | 1155 | 1157 |
| @@E764 | 001 | 00D5 | 1157 | 1159 |
| @@E765 | 001 | 00D6 | 1159 | 1161 |
| @@E766 | 001 | 00D7 | 1161 | 1163 |
| @@E767 | 001 | 00D8 | 1163 | 1165 |
| @@E768 | 001 | 00D9 | 1165 | 1167 |
| @@E769 | 001 | 00DA | 1167 | 1169 |
| @@E770 | 001 | 00DB | 1169 | 1171 |
| @@E771 | 001 | 00DC | 1171 | 1173 |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 53

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|--------|-----|-------|------|--|
| @@E772 | 001 | 00DD | 1173 | 1175 |
| @@E773 | 001 | 00DE | 1175 | 1177 |
| @@E774 | 001 | 00DF | 1177 | 1179 |
| @@E775 | 001 | 00E0 | 1179 | 1181 |
| @@E776 | 001 | 00E1 | 1181 | 1183 |
| @@E777 | 001 | 00E2 | 1183 | 1185 |
| @@E778 | 001 | 00E3 | 1185 | 1187 |
| @@E779 | 001 | 00E4 | 1187 | 1189 |
| @@E780 | 001 | 00E5 | 1189 | 1191 |
| @@E781 | 001 | 00E6 | 1191 | 1193 |
| @@E782 | 001 | 00E7 | 1193 | 1195 |
| @@E783 | 001 | 00E8 | 1195 | 1197 |
| @@E784 | 001 | 00E9 | 1197 | 1199 |
| @@E785 | 001 | 00EA | 1199 | 1201 |
| @@E786 | 001 | 00EB | 1201 | 1203 |
| @@E790 | 001 | 00EC | 1203 | 1205 |
| @@E791 | 001 | 00ED | 1205 | 1207 |
| @@E792 | 001 | 00EE | 1207 | 1209 |
| @@E793 | 001 | 00EF | 1209 | 1211 |
| @@E794 | 001 | 00F0 | 1211 | 1213 |
| @@E795 | 001 | 00F1 | 1213 | 1215 |
| @@E796 | 001 | 00F2 | 1215 | 1217 |
| @@E797 | 001 | 00F3 | 1217 | 1219 |
| @@E798 | 001 | 00F4 | 1219 | 1221 |
| @@E800 | 001 | FFFF | 1249 | |
| @@E801 | 001 | FFFF | 1251 | |
| @@E802 | 001 | FFFF | 1253 | |
| @@E803 | 001 | FFFF | 1255 | |
| @@E804 | 001 | FFFF | 1257 | |
| @@E900 | 001 | 00F5 | 1221 | 1223 |
| @@E901 | 001 | 00F6 | 1223 | 1225 |
| @@E902 | 001 | 00F7 | 1225 | 1227 |
| @@E903 | 001 | 00F8 | 1227 | 1229 |
| @@E905 | 001 | 00F9 | 1229 | 1231 |
| @@E906 | 001 | 00FA | 1231 | 1233 |
| @@E910 | 001 | 00FB | 1233 | |
| @ARR | 001 | 0008 | 0016 | 2013 2198* 2199 2200* 2201 2313 2430 2537 2732 2937 3088 |
| @ASIGN | 001 | 007C | 0071 | |
| @ASTER | 001 | 005C | 0069 | |
| @BCRDL | 001 | 0050 | 0088 | |
| @BE | 001 | 0081 | 0043 | 2807 3117 |
| @BF | 001 | 0090 | 0052 | |
| @BH | 001 | 0084 | 0041 | |
| @BL | 001 | 0082 | 0042 | |
| @BLANK | 001 | 0040 | 0065 | 2573 2942 2948 |
| @BM | 001 | 0082 | 0054 | |
| @BNE | 001 | 0001 | 0046 | 2933 |
| @BNH | 001 | 0004 | 0044 | |
| @BNL | 001 | 0002 | 0045 | 2046 |
| @BNM | 001 | 0002 | 0057 | |
| @BNOL | 001 | 0020 | 0050 | |
| @BNOZ | 001 | 0008 | 0049 | |
| @BNP | 001 | 0004 | 0056 | |
| @BNZ | 001 | 0001 | 0058 | |
| @BOL | 001 | 00A0 | 0048 | |
| @BOZ | 001 | 0088 | 0047 | |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 54

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|--------|-----|-------|------|--|
| @BP | 001 | 0084 | 0053 | |
| @BR | 001 | 0001 | 0013 | 1924 1925* 1932 1937 1938 1958 1967 1984 1985 1989 1992 1997 |
| | | | | 2001 2013 2014 2015 2025 2036 2038 2042 2046 2048 2194 2195 |
| | | | | 2197* 2198 2199 2200 2201 2203 2204 2204 2205 2207 2208 2210 |
| | | | | 2212 2212 2213 2213 2214 2216 2218 2219 2219 2220 2222 2224 |
| | | | | 2225 2225 2226 2226 2227 2227 2228 2235* 2255 2255 2257 2257 |
| | | | | 2258 2259 2260 2260 2261 2261 2262 2263 2263 2264 2265 2266 |
| | | | | 2266 2267 2269 2269 2270 2270 2271 2271 2272 2272 2273 2309 |
| | | | | 2311 2312* 2314 2316 2317 2321 2323 2329 2330 2331 2331 2332 |
| | | | | 2333 2333 2336 2337 2337 2340 2341 2342 2342 2349 2351 2352 |
| | | | | 2358* 2362 2364 2367 2368 2369 2377 2383 2386 2387 2388 2389 |
| | | | | 2395 2396 2399 2400 2401 2402 2406 2406 2412 2412 2415 2417 |
| | | | | 2417 2419 2419 2420 2424 2424 2425 2426 2430 2443 2449 2450 |
| | | | | 2450 2451 2452 2455 2456 2457 2457 2460 2532 2534 2535* 2537 |
| | | | | 2539 2541 2541 2551 2551 2556 2556 2557 2557 2558 2558 2559 |
| | | | | 2559 2560 2560 2564 2565 2565 2568 2574 2575 2580 2581 2581 |
| | | | | 2583* 2731 2733* 2742 2746 2746 2750 2750* 2775 2776 2777 2777 |
| | | | | 2783 2783* 2805 2823* 3084 3086 3087* 3088 3098 3100 3108 3109 |
| | | | | 3110 3114 3115 3116 3127 3128 3135 3148 3163* |
| @BT | 001 | 0010 | 0051 | |
| @BZ | 001 | 0081 | 0055 | |
| @B1 | 001 | 0001 | 0063 | 2466 2567 2572 3193 |
| @CADDR | 001 | 0002 | 0142 | 2204 2337 2377 2406 2412 2417 2419 3148 3150 |
| @CARDL | 001 | 0060 | 0087 | 0644 |
| @CHARA | 001 | 00C1 | 0072 | |
| @CHARF | 001 | 00C6 | 0073 | |
| @CHARR | 001 | 00D9 | 0074 | |
| @CHARZ | 001 | 00E9 | 0075 | |
| @CLOFF | 001 | 0010 | 0094 | |
| @CLON | 001 | 0011 | 0093 | |
| @COMMA | 001 | 006B | 0066 | 2766 2785 2944 |
| @CPLUS | 001 | 004E | 0079 | |
| @DADDR | 001 | 0002 | 0140 | 2203 2331 |
| @DBFR1 | 001 | 0004 | 0129 | 2270* |
| @DBFR2 | 001 | 0005 | 0130 | 3187 3197 |
| @DCALK | 001 | 0001 | 0081 | |
| @DCBCY | 001 | 0009 | 0115 | |
| @DCBT1 | 001 | 0050 | 0117 | |
| @DCNT | 001 | 0003 | 0128 | 2252 3110* 3135* |
| @DCST1 | 001 | 0040 | 0116 | |
| @DCTRL | 001 | 0000 | 0125 | |
| @DCYL | 001 | 0001 | 0126 | 2240 |
| @DD2 | 001 | 0003 | 0030 | |
| @DGET | 001 | 0001 | 0134 | 2472 3181 3191 |
| @DOLAR | 001 | 005B | 0068 | |
| @DOP2 | 001 | 0004 | 0028 | 2199* 2203* 2204* 2275 2276 |
| @DPLNG | 001 | 0006 | 0132 | 2205 2239 |
| @DPOS | 001 | 0000 | 0133 | |
| @DPUT | 001 | 0002 | 0135 | 2464 |
| @DSAD | 001 | 0002 | 0127 | 2241 3108* 3109* 3127* 3128* 3148 |
| @DSBCY | 001 | 0004 | 0106 | |
| @DSCS1 | 001 | 0000 | 0107 | |
| @DSIVF | 001 | 0003 | 0138 | |
| @DSPIN | 001 | 0002 | 0131 | |
| @DTRSZ | 001 | 0018 | 0085 | |
| @DVBCY | 001 | 0007 | 0108 | |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 55

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|--------|-----|-------|------|--|
| @DVRFY | 001 | 0031 | 0136 | |
| @DWAIT | 001 | 00FF | 0137 | |
| @DWBCY | 001 | 0005 | 0103 | |
| @DWSIZ | 001 | 00C0 | 0105 | |
| @DWTB1 | 001 | 0003 | 0104 | |
| @DZERO | 001 | 00F0 | 0064 | |
| @D1 | 001 | 0002 | 0026 | 2551 |
| @EOF | 001 | 001C | 0077 | 1963 2380 |
| @EOFTC | 001 | 0075 | 0162 | 2505 |
| @EOS | 001 | 001E | 0076 | 1943 2764 2792 2798 2806 2950 |
| @FDDBC | 001 | 0000 | 0195 | |
| @FDE1 | 001 | 000C | 0200 | |
| @FDFNA | 001 | 000B | 0198 | |
| @FDHLN | 001 | 0002 | 0208 | |
| @FDLNC | 001 | 0002 | 0193 | |
| @FDNSC | 001 | 0003 | 0210 | |
| @FSD | 001 | 0000 | 0206 | |
| @FLACE | 001 | 0009 | 0197 | |
| @FLDBC | 001 | 0001 | 0196 | |
| @FLENT | 001 | 0004 | 0201 | |
| @FLFNA | 001 | 0002 | 0199 | |
| @FLHLN | 001 | 0002 | 0209 | |
| @FLNC | 001 | 0002 | 0194 | |
| @FLNSC | 001 | 0001 | 0211 | |
| @FLSD | 001 | 0001 | 0207 | |
| @HDRLN | 001 | 0007 | 0092 | 0672 |
| @IAR | 001 | 0010 | 0017 | |
| @INDEX | 001 | 0001 | 0156 | 0157 |
| @INST3 | 001 | 0003 | 0032 | |
| @INST4 | 001 | 0004 | 0033 | |
| @INST5 | 001 | 0005 | 0034 | |
| @INST6 | 001 | 0006 | 0035 | |
| @I1IAR | 001 | 00C0 | 0020 | |
| @LINSZ | 001 | 00F4 | 0084 | 0646 |
| @MAPEN | 001 | 0005 | 0089 | |
| @MINCR | 001 | 2000 | 0083 | |
| @MINUS | 001 | 0060 | 0080 | |
| @NOP | 001 | 0080 | 0040 | 1953 2029 2087 2208 2386 2546 2620 2743 2800 |
| @NUMBR | 001 | 007B | 0070 | |
| @OPD2 | 001 | 0004 | 0029 | |
| @OP1 | 001 | 0003 | 0027 | 2013* 2014* 2015* 2195* 2201* 2356* 2359 2361 2414 2422 2462 2534* 2537* 2731* 2732* 2749* 2758* 2782* 2937* 3086* 3088* |
| @OP2 | 001 | 0005 | 0031 | |
| @PCTRL | 001 | 0000 | 0149 | |
| @PDATA | 001 | 0003 | 0151 | |
| @PGCSZ | 001 | 0020 | 0082 | 0083 |
| @PPLNG | 001 | 0004 | 0148 | |
| @PRCNT | 001 | 0001 | 0150 | |
| @PRETR | 001 | 00C0 | 0154 | |
| @PRINT | 001 | 0040 | 0152 | 0154 |
| @PSR | 001 | 0004 | 0015 | 2819* |
| @PWAIT | 001 | 00FF | 0158 | |
| @P1IAR | 001 | 0020 | 0018 | |
| @P2IAR | 001 | 0040 | 0019 | |
| @Q | 001 | 0001 | 0024 | 1937* 1938* 2207* 2208* 2218* 2224* 2250 2251 2253 2262* 2264 2336* 2383* 2386* 2399* 2405 2437 2614 2618 2744* 2748* 2779 2781* 2833 |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 56

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|--------|-----|-------|------|--|
| | | | | 2956 |
| @REGL | 001 | 0002 | 0012 | 2758 |
| @RETRN | 001 | 0080 | 0153 | 0154 |
| @RLDWN | 001 | 004F | 0159 | |
| @RTRNC | 001 | 0080 | 0161 | |
| @SBLN | 001 | 0005 | 0170 | 2502 |
| @SBLNL | 001 | 0002 | 0184 | |
| @SCTSZ | 001 | 0100 | 0100 | 1950 1978 1994 2805 |
| @SDFLN | 001 | 0007 | 0090 | |
| @SDF0 | 001 | 0000 | 0166 | 2506 |
| @SDF1 | 001 | 0001 | 0167 | 2507 |
| @SDF2 | 001 | 0002 | 0168 | 2508 |
| @SDF3 | 001 | 0003 | 0169 | |
| @SECCY | 001 | 0030 | 0086 | |
| @SIST | 001 | 0001 | 0181 | |
| @SLASH | 001 | 0061 | 0067 | |
| @SLAST | 001 | 0002 | 0183 | 2397 |
| @SMIDL | 001 | 0003 | 0182 | |
| @SNULL | 001 | 0080 | 0173 | 2354 2363 |
| @SONLY | 001 | 0000 | 0180 | 2384 |
| @STEXT | 001 | 0007 | 0172 | |
| @STYPE | 001 | 0006 | 0171 | 2503 |
| @TBCNT | 001 | 0000 | 0160 | |
| @TBLEF | 001 | 0010 | 0155 | 0157 |
| @TBLIX | 001 | 0011 | 0157 | |
| @UCB | 001 | 0087 | 0039 | 1937 1938 2262 2383 2394 2399 2616 2744 2748 2779 2781 2934 2945 |
| @UPARW | 001 | 005A | 0078 | |
| @VADDR | 001 | 0002 | 0141 | |
| @VENTA | 001 | 0056 | 0113 | |
| @VMDDV | 001 | 00FE | 0114 | |
| @VMFD1 | 001 | 0000 | 0109 | |
| @VMFD2 | 001 | 0001 | 0110 | |
| @VMRS3 | 001 | 0002 | 0112 | |
| @VMTRL | 001 | 0001 | 0111 | |
| @VOLID | 001 | 0006 | 0091 | |
| @VQ | 001 | 0001 | 0025 | |
| @WSFIT | 001 | 0500 | 0101 | 3182 3192 |
| @WSTBL | 001 | 0503 | 0102 | 2468 |
| @XR | 001 | 0002 | 0014 | 1926* 1932* 1934 1939 1939* 1943 1961 1963 1972* 1974 1974* 1975 1978 1981 1990 1990* 1994 2014 2015 2018 2031 2034 2045 2052* 2320* 2329* 2330 2338 2341 2347 2349 2350 2350* 2354 2356 2357 2357* 2363 2365 2375 2376 2378 2384 2387 2388 2389 2390 2390* 2395 2397 2400 2401 2402 2403 2403* 2404 2410 2413 2415 2421 2423 2423* 2449* 2451 2452* 2453 2456 2539 2548 2564 2567 2567* 2572 2572* 2573 2580 2752 2757 2757* 2764 2766 2769* 2785 2790 2790* 2792 2798 2806 2815* 2818* 2938 2941 2941* 2942 2944 2947 2947* 2948 2950 2952 3094* 3096 3096* 3098 3109 3114 3115 3128 |
| @ZERO | 001 | 0000 | 0062 | 2104 2105 2106 2107 2207 2351 2395 2404* 2413 2796 3109 3115 3149 |
| C4BCHC | 001 | 0004 | 2608 | |
| C4BCHR | 001 | 0FF2 | 2596 | 2564* 2565 |
| C4BINI | 001 | 0FF1 | 2594 | 2541 |
| C4BIN2 | 001 | 0F86 | 2531 | 2532 2535 2735 2760 |
| C4BLEN | 002 | 0FEE | 2606 | 2580* 2581* |
| C4BLNK | 003 | 0FA1 | 2614 | |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 57

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|--------|-----|-------|------|---|
| C4BLOW | 001 | 00F0 | 2610 | 2548 |
| C4BLVL | 002 | 0002 | 2612 | 2541 2556 2557 2558 2559 2560 2565 |
| C4BNMC | 004 | 0F9D | 2618 | |
| C4BNOP | 001 | 0080 | 2620 | |
| C4BSAV | 002 | 0FF4 | 2600 | 2539* 2581 2749 2758 2782 2818 |
| C4BSPC | 001 | 0087 | 2616 | |
| C4BVAL | 002 | 0FF0 | 2592 | 2541* 2556 2556* 2557 2558 2558* 2559 2559* 2560* 2565* 2612 2742 |
| C4BWRK | 002 | 0FEE | 2589 | 2557* 2560 2606 2612 |
| C4BYT1 | 001 | 0FEF | 2591 | |
| C4B100 | 004 | 0F9C | 2542 | 2618 |
| C4B200 | 003 | 0FA0 | 2546 | 2568 2614 |
| C4B300 | 003 | 0FA3 | 2548 | 2574 |
| C4B590 | 003 | 0FD2 | 2572 | 2551 2575 |
| C4B600 | 003 | 0FD5 | 2573 | 2546 |
| C4B700 | 003 | 0FDE | 2580 | 2549 |
| C4B800 | 004 | 0FE5 | 2583 | 2534* 2552 |
| C4B850 | 004 | 0FE9 | 2585 | 2537* |
| C4B900 | 001 | 0FF5 | 2602 | 2542* 2551* |
| C4END | 001 | 0FF6 | 2621 | |
| DL2ICS | 001 | 0000 | 2107 | |
| DL4CYL | 001 | 0D8C | 2240 | 2212* |
| DL4C01 | 002 | 0D92 | 2248 | 2198 2200 2212 |
| DL4C05 | 002 | 0D94 | 2249 | 2204 |
| DL4C24 | 003 | 0D63 | 2251 | 2225 |
| DL4C48 | 003 | 0D50 | 2253 | 2219 2260 2266 |
| DL4C96 | 003 | 0D3F | 2250 | 2213 |
| DL4DPL | 006 | 0D90 | 2239 | 2205* |
| DL4EFD | 001 | 0001 | 2246 | 2218 2264 |
| DL4END | 001 | 0DD2 | 2277 | |
| DL4ETB | 001 | 0080 | 2247 | 2224 |
| DL4E01 | 001 | 0001 | 2245 | 2220 |
| DL4E24 | 001 | 0018 | 2244 | 2222 |
| DL4E48 | 001 | 0030 | 2243 | 2216 2258 |
| DL4E96 | 001 | 0060 | 2242 | 2210 |
| DL4ICS | 001 | 0D16 | 2193 | 2441 2458 3131 3138 |
| DL4LST | 001 | 0D8B | 2238 | 2231 2240 2241 2252 2270* |
| DL4SAV | 005 | 0D2D | 2276 | 2263* 2266* 2269 |
| DL4SCD | 001 | 0D8D | 2241 | 2210 2213* 2216 2219* 2222 2225* 2226 2226* 2227 2227* 2228* 2257 |
| DL4SCT | 001 | 0D8E | 2252 | 2220 2255 2261* 2270 2271 2272* |
| DL4SPT | 004 | 0D95 | 2256 | 2221 |
| DL4WRK | 005 | 0D2E | 2275 | 2255* 2257* 2258 2260* 2261 2272 |
| DL4010 | 001 | 0D1A | 2196 | 2194 2197 |
| DL4020 | 005 | 0D2A | 2203 | 2199* 2275 2276 |
| DL4030 | 005 | 0D33 | 2205 | 2203* 2204* |
| DL4035 | 003 | 0D38 | 2207 | 2273 |
| DL4040 | 003 | 0D3E | 2210 | 2214 2250 |
| DL4050 | 003 | 0D4F | 2216 | 2211 2253 |
| DL4060 | 003 | 0D5C | 2220 | 2217 |
| DL4070 | 003 | 0D62 | 2222 | 2251 2259 2265 2267 |
| DL4080 | 004 | 0D6F | 2226 | 2223 |
| DL4100 | 003 | 0D77 | 2228 | 2207* 2218* 2224* 2264 |
| DL4200 | 003 | 0D80 | 2233 | 2208* 2262* |
| DL4500 | 004 | 0D95 | 2255 | 2256 |
| DL4600 | 004 | 0DBF | 2269 | 2233 |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 58

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|--------|-----|-------|------|--|
| DL4900 | 004 | 0D83 | 2235 | 2195* |
| DL4920 | 004 | 0D87 | 2236 | 2201* |
| GFIBF1 | 001 | 1200 | 2110 | 2111 3067 3184 |
| GFIBF2 | 001 | 1300 | 2111 | 2112 3194 |
| GFIBR1 | 001 | 1194 | 3187 | 3150 |
| GFIBR2 | 001 | 119A | 3197 | |
| GFIBSE | 001 | 1131 | 3093 | 3084 3087 |
| GFICT1 | 001 | 0001 | 3053 | 3116 3135 3154 |
| GFICT2 | 001 | 0002 | 3054 | 3110 |
| GFIDS0 | 001 | 0000 | 3056 | |
| GFIDS1 | 001 | 0001 | 3057 | |
| GFIDS2 | 001 | 0002 | 3058 | 3098 |
| GFIDS3 | 001 | 0003 | 3059 | |
| GFIDS4 | 001 | 0004 | 3060 | 3096 3114 3128 |
| GFIDS5 | 001 | 0005 | 3061 | |
| GFIDS8 | 001 | 0008 | 3062 | 3071 |
| GFIDTA | 001 | 0003 | 3073 | 3108 3127 |
| GFILNO | 002 | 118D | 3173 | 1958* 1975* 2018 3098 |
| GFILN1 | 001 | 0001 | 3064 | 3109 3114 3115 3128 |
| GFILN2 | 001 | 0002 | 3065 | 3098 |
| GFINDN | 001 | 1126 | 3085 | 1959 2017 |
| GFIND0 | 004 | 1184 | 3163 | 3086* |
| GFIND2 | 004 | 1188 | 3164 | 3088* |
| GFINTY | 001 | 1D08 | 3071 | 3094 |
| GFIRAD | 001 | 1195 | 3190 | 3127* 3128* 3132 3197 |
| GFIREF | 001 | 118F | 3180 | 3108* 3109* 3110* 3135* 3139 3148 3187 |
| GFITAD | 001 | 1D00 | 3069 | 3071 |
| GFIEWR | 001 | 118E | 3175 | 3114* 3115* 3116 |
| GF1100 | 003 | 1135 | 3096 | 3100 |
| GF1150 | 004 | 1138 | 3098 | |
| GF1200 | 003 | 1154 | 3117 | |
| GF1500 | 004 | 1167 | 3138 | 3117 |
| GRABIT | 001 | 0DD2 | 2310 | 1966 2006 2024 2051 3152 |
| GRABOA | 002 | 0F71 | 2489 | 2406 2419 2424 |
| GRABSE | 004 | 0EB6 | 2515 | 2309 2312 |
| GRACCA | 002 | 0F62 | 2466 | |
| GRACFN | 001 | 0F61 | 2464 | |
| GRACPL | 001 | 0F61 | 2463 | 2442 |
| GRACSC | 001 | 0F64 | 2469 | 2333* |
| GRAEBS | 001 | 00FF | 2497 | 2332 2460 |
| GRAEDB | 001 | 0002 | 2483 | 2340 2455 |
| GRAEDC | 001 | 0001 | 2514 | |
| GRAEDL | 001 | 0006 | 2502 | 2357 2375 |
| GRAEDS | 001 | 0005 | 2516 | 2450 |
| GRAEDT | 001 | 0007 | 2503 | 2347 2376 2378 |
| GRAEET | 001 | 0075 | 2505 | 2347 2378 |
| GRAEFG | 001 | 0004 | 2496 | 2369 |
| GRAEFI | 001 | 0000 | 2492 | 2314 |
| GRAEFR | 001 | 0001 | 2494 | 2321 2367 |
| GRAEFS | 001 | 0002 | 2495 | 1960 2323 |
| GRAEFW | 001 | 0003 | 2493 | 2005 2050 2316 2443 |
| GRAELK | 001 | 0000 | 2499 | 2338 2341 2453 2456 |
| GRAELL | 001 | 0002 | 2504 | 2375 |
| GRAELN | 001 | 0000 | 2500 | 2338 2453 |
| GRAELP | 001 | 0007 | 2510 | 2390 |
| GRAELS | 001 | 0004 | 2511 | 2403 |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 59

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|--------|-----|-------|------|---|
| GRAEMR | 001 | 001B | 2512 | 2410 |
| GRAENC | 001 | 0001 | 2513 | 2410 2415* 2421 2423 |
| GRAERR | 004 | 0F7A | 2521 | 2336* 2352 2364 2368 |
| GRAESC | 001 | 0001 | 2498 | |
| GRAES0 | 001 | 0001 | 2506 | 2354 2363 |
| GRAES1 | 001 | 0002 | 2507 | 2349 2350 2387 2388* 2389 2400 2401* 2402 |
| GRAES2 | 001 | 0003 | 2508 | 2365 2384 2397 |
| GRAETP | 001 | 0002 | 2509 | 2365 |
| GRAEW2 | 001 | 0006 | 2517 | |
| GRAEXA | 001 | 0001 | 2501 | 2502 2503 2506 2507 2508 |
| GRANCA | 002 | 0F6C | 2477 | 2330* 2337* 2450 2451* |
| GRANDA | 002 | 0F69 | 2473 | 2331* 2340* 2341* 2342* 2455* 2456* 2457* |
| GRANPB | 002 | 0F71 | 2482 | 2342 2457 2488 2489 2490 |
| GRANPL | 001 | 0F67 | 2471 | 2459 |
| GRANXC | 002 | 0F71 | 2490 | |
| GRAONE | 002 | 0F71 | 2488 | 2415 |
| GRAPSG | 002 | 0F76 | 2486 | 2388 |
| GRASAR | 004 | 0E59 | 2361 | 2313* |
| GRASBR | 004 | 0E55 | 2359 | 2311* |
| GRASEG | 001 | 0F79 | 2491 | 2389* 2402* 2424* |
| GRASIZ | 001 | 0F72 | 2484 | 2332* 2349* 2351 2387* 2400* 2460* |
| GRASSG | 002 | 0F78 | 2487 | 2401 |
| GRASSZ | 002 | 0F6F | 2481 | 2337 |
| GRASVC | 003 | 0EDA | 2405 | 2395* |
| GRATND | 005 | 0EF4 | 2414 | 2412* 2417 2419* |
| GRATXT | 002 | 0F74 | 2485 | 2377 |
| GRA020 | 004 | 0DEA | 2320 | 2356* |
| GRA100 | 003 | 0DFD | 2329 | 2315 |
| GRA140 | 003 | 0E1B | 2338 | |
| GRA150 | 004 | 0E28 | 2342 | 2339 |
| GRA200 | 003 | 0E2F | 2347 | 2324 |
| GRA210 | 004 | 0E35 | 2349 | 2325 2371 |
| GRA220 | 003 | 0E3C | 2351 | 2392 2394 |
| GRA230 | 004 | 0E4B | 2356 | 2348 2366 2370 2381 |
| GRA240 | 004 | 0E52 | 2358 | 2359 2444 |
| GRA245 | 004 | 0E56 | 2360 | 2361 |
| GRA250 | 003 | 0E5A | 2362 | 2353 2355 |
| GRA260 | 003 | 0E5D | 2363 | 2343 |
| GRA300 | 005 | 0E7B | 2375 | 2322 |
| GRA303 | 003 | 0E98 | 2383 | 2379 |
| GRA305 | 004 | 0EA4 | 2387 | 2385 |
| GRA310 | 004 | 0EB6 | 2392 | 2383* 2386* 2393 2399* 2425 2515 |
| GRA313 | 004 | 0ECA | 2400 | 2398 |
| GRA315 | 003 | 0ED9 | 2404 | 2405 |
| GRA316 | 004 | 0EDC | 2406 | 2426 |
| GRA317 | 001 | 0EE0 | 2407 | 2391 |
| GRA320 | 005 | 0EF1 | 2413 | 2414 2420 |
| GRA330 | 004 | 0F04 | 2419 | 2416 |
| GRA350 | 005 | 0F0B | 2421 | 2409 2411 2422 |
| GRA360 | 003 | 0F10 | 2423 | 2418 |
| GRA5SA | 004 | 0F60 | 2462 | 2430* |
| GRA500 | 003 | 0F1D | 2430 | 2362 2396 |
| GRA510 | 003 | 0F26 | 2436 | 2437 |
| GRA520 | 004 | 0F29 | 2441 | 2317 |
| GRA600 | 001 | 0F36 | 2445 | 2436 |
| GRA620 | 004 | 0F50 | 2457 | 2454 |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 60

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|--------|-----|-------|------|---|
| GRA640 | 004 | 0F54 | 2458 | |
| GRA660 | 003 | 0F5A | 2460 | |
| GRA680 | 004 | 0F5D | 2461 | 2462 |
| GRBFRA | 002 | 0F66 | 2470 | 2329 2449 2450* 2452 3150* |
| GRBFR1 | 001 | 1200 | 3067 | 2470 |
| GRIDWR | 003 | 0F27 | 2437 | 1928* |
| GRLINE | 001 | 0000 | 2104 | 2375* |
| GRSCTR | 001 | 0F6A | 2474 | 2333 |
| GRSRDA | 002 | 0F63 | 2465 | 2331 2466 3148* |
| GRTEND | 005 | 0F0E | 2422 | 2377* 2406* 2412 2417* |
| GRTEXT | 001 | 0000 | 2106 | 2380* 2485 |
| GRTYPE | 001 | 0000 | 2105 | 2376* |
| GRWHAT | 001 | 0F6D | 2478 | 1960* 2005* 2022* 2050* 2314 2316 2321 2323 2367 2369 2443 3149* 3154* |
| KENDIS | 001 | 00E2 | 2093 | 1934 |
| KENDSH | 001 | 0060 | 2099 | 1981 |
| KENEOF | 001 | 2710 | 2094 | |
| KENIRM | 001 | 0080 | 2098 | 2016 |
| KENMIN | 002 | 0D13 | 2078 | 1932 |
| KENMSK | 001 | 0080 | 2097 | 1961 2031 2034 |
| KENOFF | 001 | 0000 | 2096 | 2048 |
| KENPLS | 001 | 0005 | 2092 | 1939 |
| KENRNG | 001 | 0D0F | 2070 | 1989* 2036 2042 2048* |
| KENSON | 001 | 0001 | 2095 | 1989 2036 2042 |
| KENTYP | 001 | 0001 | 2101 | 1961* 2031* 2034* |
| KENWRK | 002 | 0D11 | 2074 | |
| KENZER | 002 | 0D15 | 2079 | 1958 |
| KEN000 | 001 | 0000 | 2084 | 1975 |
| KEN001 | 001 | 0001 | 2085 | 1978 1981 1994 |
| KEN002 | 001 | 0002 | 2086 | 1958 1963 1974 1975 2018 2045 |
| KEN003 | 001 | 0080 | 2087 | 1928 |
| KEN004 | 001 | 0002 | 2088 | 2022 |
| KEN005 | 001 | 0000 | 2089 | 1943 2018 2045 |
| KEN006 | 001 | 0002 | 2090 | |
| KEN007 | 001 | 0003 | 2091 | 1990 |
| KEN100 | 003 | 0C22 | 1939 | 1935 |
| KEN110 | 004 | 0C32 | 1946 | 1941 |
| KEN115 | 003 | 0C40 | 1953 | 1924 1925 1937* |
| KEN120 | 005 | 0C43 | 1958 | |
| KEN125 | 003 | 0C50 | 1961 | 1967 |
| KEN130 | 004 | 0C60 | 1972 | 1951 |
| KEN135 | 003 | 0C64 | 1974 | 1985 1997 |
| KEN140 | 003 | 0C7E | 1989 | 1982 |
| KEN150 | 003 | 0C90 | 2001 | 1979 |
| KEN155 | 004 | 0C93 | 2005 | 1964 1995 |
| KEN170 | 003 | 0C9F | 2013 | 1984 1992 2001 |
| KEN180 | 005 | 0CB0 | 2018 | 2025 |
| KEN182 | 004 | 0CBB | 2022 | 2038 |
| KEN185 | 003 | 0CC6 | 2029 | 1938* 2019 2046 |
| KEN190 | 003 | 0CCF | 2034 | 2029 |
| KEN195 | 003 | 0CD2 | 2036 | 2032 |
| KEN210 | 003 | 0CDB | 2042 | 2020 |
| KEN220 | 005 | 0CE1 | 2045 | 2015* |
| KEN250 | 003 | 0CE9 | 2048 | |
| KEN255 | 004 | 0CEC | 2050 | 2037 2043 |
| KEN257 | 004 | 0CF4 | 2052 | 2014* |

CROSS REFERENCE

VER 15, MOD 00 31/05/22 PAGE 61

| SYMBOL | LEN | VALUE | DEFN | REFERENCES |
|--------|-----|-------|------|------------------------------------|
| KEN260 | 004 | 0CFC | 2054 | 2013* |
| KEN600 | 004 | 0D00 | 2059 | 1944 |
| KEN610 | 004 | 0D07 | 2063 | 1953 |
| KEN611 | 004 | 0D0B | 2065 | 1948 2061 |
| KEN700 | 001 | 0D0F | 2069 | 2071 |
| SCACNT | 002 | 1125 | 2962 | 2796 2952* 2953* |
| SCACOF | 001 | 0087 | 2934 | |
| SCACOM | 001 | 0001 | 2933 | |
| SCAINC | 001 | 0001 | 2932 | 2941 2947 |
| SCAMMA | 003 | 1102 | 2956 | |
| SCANIT | 001 | 10E5 | 2936 | 1940 2751 2759 2784 2791 |
| SCASVE | 002 | 1123 | 2961 | 2938* 2953 |
| SCASV1 | 001 | 1122 | 2960 | |
| SCA100 | 003 | 10F4 | 2941 | 2943 |
| SCA200 | 003 | 10F7 | 2942 | 2940 |
| SCA250 | 003 | 1101 | 2945 | 2956 |
| SCA300 | 003 | 1104 | 2947 | 2949 |
| SCA400 | 004 | 1114 | 2952 | 2945 |
| SCA500 | 004 | 111E | 2955 | 2937* 2951 |
| SLLBLW | 002 | 10E4 | 2838 | 2819 |
| SLLDSH | 001 | 0060 | 2831 | 2752 2775 |
| SLLIND | 003 | 10BF | 2833 | |
| SLLINE | 001 | 1400 | 2112 | 1950 1972 2733 |
| SLLIST | 001 | 0FF6 | 2729 | 1946 |
| SLLLN2 | 001 | 0002 | 2830 | 2733 2742 2746 2749 2776 2777 2782 |
| SLLRET | 001 | 0087 | 2834 | |
| SLL000 | 001 | 0000 | 2826 | 2806 |
| SLL001 | 001 | 0001 | 2827 | 2746 2777 |
| SLL002 | 001 | 0002 | 2828 | 2750 2775* 2805* |
| SLL003 | 001 | 0003 | 2829 | 2742* 2746 2776* 2777 2783 |
| SLL100 | 004 | 1002 | 2735 | 2801 |
| SLL110 | 003 | 1011 | 2743 | 2744* |
| SLL115 | 004 | 101B | 2746 | 2743 |
| SLL120 | 003 | 102C | 2750 | 2745 2747 |
| SLL125 | 004 | 105C | 2769 | 2758* 2765 |
| SLL130 | 003 | 1067 | 2775 | 2762 |
| SLL140 | 003 | 1087 | 2783 | 2778 2780 |
| SLL150 | 003 | 108E | 2785 | 2753 |
| SLL160 | 004 | 10A4 | 2796 | 2786 |
| SLL165 | 003 | 10B1 | 2800 | 2748* 2779 2781* 2794 2797 |
| SLL180 | 003 | 10B8 | 2805 | 2738 |
| SLL190 | 003 | 10BE | 2807 | 2833 |
| SLL195 | 004 | 10C1 | 2809 | 2767 2799 |
| SLL200 | 004 | 10C8 | 2815 | 2749* 2782* 2800 |
| SLL210 | 004 | 10D3 | 2818 | 2736 2761 2811 |
| SLL215 | 004 | 10D7 | 2819 | 2771 2793 2817 |
| SLL220 | 004 | 10DB | 2823 | 2731* 2807 |
| SLL230 | 004 | 10DF | 2824 | 2732* |

TOTAL STATEMENTS IN ERROR IN THIS ASSEMBLY = 0

OL105 I THE CODE LENGTH OF #KENAB IS 4608 DECIMAL.
 OL103 I TOTAL NUMBER OF LIBRARY SECTORS REQUIRED IS 10
 NAME-#KENAB,PACK-R1R1R1,UNIT-R1,RETAIN-P,LIBRARY-R,CATEGORY-000

| START ADDRESS | CATEGORY | NAME AND ENTRY | CODE HEXADECIMAL | LENGTH DECIMAL |
|---------------|----------|----------------|------------------|----------------|
|---------------|----------|----------------|------------------|----------------|

| | | | | |
|------|---|--------|------|------|
| 0C00 | 0 | #KENAB | 1200 | 4608 |
|------|---|--------|------|------|

OL100 I THE TOTAL CORE USED BY #KENAB IS 4608 DECIMAL.
 OL101 I THE START CONTROL ADDRESS OF THIS MODULE IS 0C00.
 OL104 I TOTAL NUMBER OF LIBRARY SECTORS REQUIRED IS 19
 NAME-#KENAB,PACK-R1R1R1,UNIT-R1,RETAIN-P,LIBRARY-O

7

| | | | | | | | |
|--------|-----|-----------|-------|-------|-------|------|------|
| SLL150 | 003 | 10B0 2792 | 2760 | | | | |
| SLL160 | 004 | 10C6 2803 | 2793 | | | | |
| SLL165 | 003 | 10D3 2807 | 2755* | 2786 | 2788* | 2801 | 2804 |
| SLL180 | 003 | 10DA 2812 | 2745 | | | | |
| SLL190 | 003 | 10E0 2814 | 2840 | | | | |
| SLL195 | 004 | 10E3 2816 | 2774 | 2806 | | | |
| SLL200 | 004 | 10EA 2822 | 2756* | 2789* | 2807 | | |
| SLL210 | 004 | 10F5 2825 | 2743 | 2768 | 2818 | | |
| SLL215 | 004 | 10F9 2826 | 2778 | 2800 | 2824 | | |
| SLL220 | 004 | 10FD 2830 | 2738* | 2814 | | | |
| SLL230 | 004 | 1101 2831 | 2739* | | | | |

TOTAL STATEMENTS IN ERROR IN THIS ASSEMBLY = 1