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000001 2 TITLE NETX SOFTWARE
000002 4 XDEF E\$NETX NEEDED FOR MODULE MAP
092F
000003 0000 5 S\$NETX EQU \$ START OF MODULE NETX
000004 6 *
000005 7 *This document and the information contained herein are
000006 *confidential to and the property of BASIC DESIGN INC. and
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| | | | | |
|--------|------|------|----------------------------|--|
| 000021 | | 1000 | / EJECT | |
| 000022 | | 1001 | * | |
| 000023 | | 1002 | * IO DRIVERS | |
| 000024 | | 1003 | * | |
| 000025 | 0000 | 1004 | \$IOCHO EQU Z'0000' | IO CHANNELS |
| 000026 | 0040 | 1005 | \$IOCH1 EQU Z'0040' | |
| 000027 | 0030 | 1006 | \$IOCH2 EQU Z'0080' | |
| 000028 | 00C0 | 1007 | \$IOCH3 EQU Z'00C0' | |
| 000029 | | 1008 | * | |
| 000030 | 0001 | 1009 | \$OTCTL EQU Z'0001' | CONTROL INFORMATION OUTPUT |
| 000031 | 0002 | 1010 | \$ICTLI EQU Z'0002' | INPUT INT CONTROL INFO |
| 000032 | 0003 | 1011 | \$ICTL0 EQU Z'0003' | OUTPUT INT CONTROL INFO |
| 000033 | 0005 | 1012 | \$OCCTL EQU Z'0005' | OUTPUT CHANNEL CONTROL |
| 000034 | 0006 | 1013 | \$TSKRI EQU Z'0006' | INPUT TASK REGISTER |
| 000035 | 0007 | 1014 | \$TSKRO EQU Z'0007' | OUTPUT TASK REGISTER |
| 000036 | 0008 | 1015 | \$INMBA EQU Z'0008' | INPUT MEMORY BYTE ADDRESS |
| 000037 | 000A | 1016 | \$INMMA EQU Z'000A' | INPUT MEMORY MODULE ADDRESS |
| 000038 | 000C | 1017 | \$INRNG EQU Z'000C' | INPUT RANGE RESIDUE |
| 000039 | 000F | 1018 | \$OBCTL EQU Z'000F' | OUTPUT BUFFER CONTROL |
| 000040 | 0010 | 1019 | \$CFGAI EQU Z'0010' | INPUT CNFG REGISTER A |
| 000041 | 0011 | 1020 | \$CFGAO EQU Z'0011' | OUTPUT CNFG REGISTER A |
| 000042 | 0012 | 1021 | \$CFGBI EQU Z'0012' | INPUT CNFG REGISTER B |
| 000043 | 0013 | 1022 | \$CFGBO EQU Z'0013' | OUTPUT CNFG REGISTER B |
| 000044 | | 1023 | * | |
| 000045 | 0018 | 1024 | \$ISTS1 EQU Z'0018' | INPUT STATUS REG 1 |
| 000046 | 001A | 1025 | \$ISTS2 EQU Z'001A' | INPUT STATUS REG 2 |
| 000047 | 0026 | 1026 | \$IDINP EQU Z'0026' | INPUT DEVICE ID |
| 000048 | | 1027 | * | |
| 000049 | 0009 | 1028 | \$IOLD EQU Z'0009' | SIMPLE LOAD (NO DIRECTION) |
| 000050 | 0009 | 1029 | \$IOLDI EQU \$IOLD+\$IOCHO | LOAD AND START DCW EXECUTION (TO US) |
| 000051 | 0049 | 1030 | \$IOLDO EQU \$IOLD+\$IOCH1 | LOAD AND START DCW EXECUTION (FROM US) |
| 000052 | | 1031 | * | |
| 000053 | | 1032 | * MISCELLANEOUS CHANNELS | |
| 000054 | | 1033 | * | |
| 000055 | 0000 | 1034 | CPUOCH EQU 0 | CHANNEL OF CPU#0 |
| 000056 | 0400 | 1035 | BTLDCH EQU Z'0400' | BOOTLOAD CHANNEL |
| 000057 | | 1036 | * | |
| 000058 | | 1037 | * | |
| 000059 | | 1038 | * CLOCK BLOCK DEFINITIONS | |
| 000060 | | 1039 | * | |
| 000061 | 0001 | 1040 | FPTR EQU 1 | FIRST BLOCK POINTER |
| 000062 | 0002 | 1041 | LPTR EQU 2 | LAST BLOCK POINTER (SAF) |
| 000063 | | 1042 | * | |
| 000064 | 0003 | 1043 | USRDTA EQU 3 | START OF DATA IN QUEUE BLOCKS |
| 000065 | | 1044 | * | |
| 000066 | 0003 | 1045 | SWORD EQU 3 | S-REGISTER OR STATUS |
| 000067 | 0004 | 1046 | UWORD EQU 4 | USERS XB7 |
| 000068 | 0006 | 1047 | RWORD EQU 6 | RUN ADDRESS |

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| | | | | |
|--------|------|------|---------------------|--|
| 000069 | | 2000 | /EJECT | |
| 000070 | | 2001 | * | |
| 000071 | | 2002 | *ASCII VALUES | |
| 000072 | | 2003 | * | |
| 000073 | | 2004 | *CONTROL CHARACTERS | |
| 000074 | | 2005 | * | |
| 000075 | 000D | 2006 | \$ASCCR | EQU 13 |
| 000076 | 000A | 2007 | \$ASCLF | EQU 10 |
| 000077 | 001B | 2008 | \$ASCEC | EQU 27 |
| 000078 | 000A | 2009 | \$CRLF | EQU \$ASCCR★Z'0100'+\$ASCLF C/R L/F PAIR |
| 000079 | | 2010 | * | |
| 000080 | | 2011 | *NUMBERS (0-9) | |
| 000081 | | 2012 | * | |
| 000082 | 0030 | 2013 | \$ASC0 | EQU 48 |
| 000083 | 0031 | 2014 | \$ASC1 | EQU 49 |
| 000084 | 0032 | 2015 | \$ASC2 | EQU 50 |
| 000085 | 0033 | 2016 | \$ASC3 | EQU 51 |
| 000086 | 0034 | 2017 | \$ASC4 | EQU 52 |
| 000087 | 0035 | 2018 | \$ASC5 | EQU 53 |
| 000088 | 0036 | 2019 | \$ASC6 | EQU 54 |
| 000089 | 0037 | 2020 | \$ASC7 | EQU 55 |
| 000090 | 0038 | 2021 | \$ASC8 | EQU 56 |
| 000091 | 0039 | 2022 | \$ASC9 | EQU 57 |
| 000092 | | 2023 | * | |
| 000093 | | 2024 | *LETTERS (A-Z) | |
| 000094 | | 2025 | * | |
| 000095 | 0041 | 2026 | \$ASCA | EQU 65 |
| 000096 | 0042 | 2027 | \$ASCB | EQU 66 |
| 000097 | 0043 | 2028 | \$ASCC | EQU 67 |
| 000098 | 0044 | 2029 | \$ASCD | EQU 68 |
| 000099 | 0045 | 2030 | \$ASCE | EQU 69 |
| 000100 | 0046 | 2031 | \$ASCF | EQU 70 |
| 000101 | 0047 | 2032 | \$ASCG | EQU 71 |
| 000102 | 0048 | 2033 | \$ASCH | EQU 72 |
| 000103 | 0049 | 2034 | \$ASCI | EQU 73 |
| 000104 | 004A | 2035 | \$ASCJ | EQU 74 |
| 000105 | 004B | 2036 | \$ASCK | EQU 75 |
| 000106 | 004C | 2037 | \$ASCL | EQU 76 |
| 000107 | 004D | 2038 | \$ASCM | EQU 77 |
| 000108 | 004E | 2039 | \$ASCN | EQU 78 |
| 000109 | 004F | 2040 | \$ASCO | EQU 79 |
| 000110 | 0050 | 2041 | \$ASCP | EQU 80 |
| 000111 | 0051 | 2042 | \$ASCQ | EQU 81 |
| 000112 | 0052 | 2043 | \$ASCR | EQU 82 |
| 000113 | 0053 | 2044 | \$ASCS | EQU 83 |
| 000114 | 0054 | 2045 | \$ASCT | EQU 84 |
| 000115 | 0055 | 2046 | \$ASCU | EQU 85 |
| 000116 | 0056 | 2047 | \$ASCV | EQU 86 |
| 000117 | 0057 | 2048 | \$ASCW | EQU 87 |
| 000118 | 0058 | 2049 | \$ASCX | EQU 88 |
| 000119 | 0059 | 2050 | \$ASCY | EQU 89 |
| 000120 | 005A | 2051 | \$ASCZ | EQU 90 |

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|--------|------|------|----------------------|---|
| 000121 | | 2052 | / EJECT | |
| 000122 | | 2053 | * | |
| 000123 | | 2054 | * SPECIAL CHARACTERS | |
| 000124 | | 2055 | * | |
| 000125 | 0020 | 2056 | \$ASCSP | EQU 32 |
| 000126 | 0024 | 2057 | \$ASCDL | EQU 36 |
| 000127 | 0027 | 2058 | \$ASCAP | EQU 39 |
| 000128 | 0028 | 2059 | \$ASCLP | EQU 40 |
| 000129 | 0029 | 2060 | \$ASCRP | EQU 41 |
| 000130 | 002A | 2061 | \$ASCAS | EQU 42 |
| 000131 | 002B | 2062 | \$ASCPL | EQU 43 |
| 000132 | 002C | 2063 | \$ASCCM | EQU 44 |
| 000133 | 002D | 2064 | \$ASCDS | EQU 45 |
| 000134 | 002E | 2065 | \$ASCDT | EQU 46 |
| 000135 | 002F | 2066 | \$ASCFS | EQU 47 |
| 000136 | 003A | 2067 | \$ASCCN | EQU 58 |
| 000137 | 003B | 2068 | \$ASCSC | EQU 59 |
| 000138 | 003C | 2069 | \$ASCLT | EQU 60 |
| 000139 | 003D | 2070 | \$ASCEQ | EQU 61 |
| 000140 | 003E | 2071 | \$ASCGT | EQU 62 |
| 000141 | 003F | 2072 | \$ASCQM | EQU 63 |
| 000142 | 0040 | 2073 | \$ASCAT | EQU 64 |
| 000143 | 005C | 2074 | \$ASCBS | EQU 92 |
| 000144 | 005E | 2075 | \$ASCUA | EQU 94 |
| 000145 | 005F | 2076 | \$ASCBA | EQU 95 |
| 000146 | 007F | 2077 | \$ASCRO | EQU 127 |
| 000147 | 7F7F | 2078 | \$RORO | EQU \$ASCRO*Z'0100'+\$ASCRO TIME DELAY PAIR |
| 000148 | | 2079 | * | |
| 000149 | | 2080 | * CONTROL CHARACTERS | |
| 000150 | | 2081 | * | |
| 000151 | 0005 | 2082 | \$ACCE | EQU \$ASCE-64 |
| 000152 | 0018 | 2083 | \$ACCX | EQU \$ASCX-64 |
| 000153 | 001A | 2084 | \$ACCZ | EQU \$ASCZ-64 |
| 000154 | | 2085 | * | |
| 000155 | 0009 | 2086 | \$ASCHT | EQU 9 HORIZONTAL TAB |
| 000156 | 0008 | 2087 | \$ASCVT | EQU 11 VERTICAL TAB |
| 000157 | 000C | 2088 | \$ASCFF | EQU 12 FORM FEED |
| 000158 | 0019 | 2089 | \$ASCEM | EQU 25 END MEDIA |
| 000159 | 001D | 2090 | \$ASCGS | EQU 29 GROUP SEPERATOR |
| 000160 | 001E | 2091 | \$ASCRS | EQU 30 RECORD SEPERATOR |

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|--------|------|------|---------------------------|--|
| 000161 | | 2092 | /EJECT | |
| 000162 | | 2093 | * | |
| 000163 | | 2094 | * SPEED ASSIGNMENT TABLES | |
| 000164 | | 2095 | * | |
| 000165 | 0000 | 2096 | \$S10 EQU 0 | LEVEL6 CODING FOR SPEED TABLES |
| 000166 | 0002 | 2097 | \$S15 EQU 2 | |
| 000167 | 0003 | 2098 | \$S30 EQU 3 | |
| 000168 | 0004 | 2099 | \$S60 EQU 4 | |
| 000169 | 0005 | 2100 | \$S120 EQU 5 | |
| 000170 | 0006 | 2101 | \$S180 EQU 6 | |
| 000171 | 000A | 2102 | \$S240 EQU 10 | |
| 000172 | 000B | 2103 | \$S480 EQU 11 | |
| 000173 | 000C | 2104 | \$S960 EQU 12 | |
| 000174 | 000D | 2105 | \$S1920 EQU 13 | |
| 000175 | | 2106 | * | |
| 000176 | 0010 | 2107 | \$SMAX EQU 16 | UP TO SIXTEEN DIFFERENT SPEED SETTINGS |
| 000177 | | 2108 | * | |
| 000178 | | 2109 | * | |
| 000179 | | 2110 | *SET MODE CONSTANTS | |
| 000180 | | 2111 | * | |
| 000181 | 0040 | 2112 | SM\$000 EQU Z'0040' | BASE FOR MODE SETTING COMMANDS |
| 000182 | | 2113 | * | |
| 000183 | 0040 | 2114 | SM\$ECH EQU Z'0040' | SET ECHOPLEX |
| 000184 | 0041 | 2115 | SM\$ROT EQU Z'0041' | SET RAW OUTPUT |
| 000185 | 0042 | 2116 | SM\$MFR EQU Z'0042' | MAINFRAME READY |
| 000186 | 0043 | 2117 | SM\$EOO EQU Z'0043' | MAINFRAME LOGICAL END OF OUTPUT |
| 000187 | 0044 | 2118 | SM\$FRD EQU Z'0044' | SET FRIDEN MODE |
| 000188 | 0045 | 2119 | SM\$RDO EQU Z'0045' | READ OUTSTANDING |
| 000189 | 0046 | 2120 | SM\$IDL EQU Z'0046' | IDLE DELAY (TIME/FILL) |
| 000190 | | 2121 | * | |
| 000191 | 0060 | 2122 | SM\$DLY EQU Z'0060' | SET DELAY PARAMETERS |
| 000192 | 0060 | 2123 | SM\$DLO EQU SM\$DLY+0 | |
| 000193 | 0061 | 2124 | SM\$DL1 EQU SM\$DLY+1 | |
| 000194 | 0062 | 2125 | SM\$DL2 EQU SM\$DLY+2 | |
| 000195 | 0063 | 2126 | SM\$DL3 EQU SM\$DLY+3 | |
| 000196 | 0064 | 2127 | SM\$DL4 EQU SM\$DLY+4 | |
| 000197 | 0065 | 2128 | SM\$DL5 EQU SM\$DLY+5 | |
| 000198 | 0066 | 2129 | SM\$DL6 EQU SM\$DLY+6 | |
| 000199 | 0067 | 2130 | SM\$DL7 EQU SM\$DLY+7 | |
| 000200 | | 2131 | * | |
| 000201 | 0068 | 2132 | SM\$OMD EQU Z'0068' | SET OUTPUT MODE |
| 000202 | 0068 | 2133 | SM\$OM0 EQU SM\$OMD+0 | |
| 000203 | 0069 | 2134 | SM\$OM1 EQU SM\$OMD+1 | |
| 000204 | 006A | 2135 | SM\$OM2 EQU SM\$OMD+2 | |
| 000205 | 006B | 2136 | SM\$OM3 EQU SM\$OMD+3 | |

000206 3000 /EJECT
000207 3001 *
000208 3002 *HARDWARE SPECIFIC INFORMATION
000209 3003 *
000210 3004 *START OF INTERRUPT VECTOR (IV00) AND FAULT VECTOR (FV00)
000211 3005 * +1=IV01 -1=FV01
000212 3006 ***** IVECT EQU Z'0080'
000213 3007 *
000214 3008 *BIT MASK ASSIGNMENTS
000215 3009 *
000216 0001 3010 \$MKB7 EQU Z'0001'
000217 0002 3011 \$MKB6 EQU Z'0002'
000218 0004 3012 \$MKB5 EQU Z'0004'
000219 0008 3013 \$MKB4 EQU Z'0008'
000220 0010 3014 \$MKB3 EQU Z'0010'
000221 0020 3015 \$MKB2 EQU Z'0020'
000222 0040 3016 \$MKB1 EQU Z'0040'
000223 0080 3017 \$MKI EQU Z'0080'
000224 0100 3018 \$MKR7 EQU Z'0100'
000225 0200 3019 \$MKR6 EQU Z'0200'
000226 0400 3020 \$MKR5 EQU Z'0400'
000227 0800 3021 \$MKR4 EQU Z'0800'
000228 1000 3022 \$MKR3 EQU Z'1000'
000229 2000 3023 \$MKR2 EQU Z'2000'
000230 4000 3024 \$MKR1 EQU Z'4000'
000231 8000 3025 \$MKM1 EQU Z'8000'
000232 3026 *
000233 7000 3027 \$MKR13 EQU \$MKR1+\$MKR2+\$MKR3
000234 0F00 3028 \$MKR47 EQU \$MKR4+\$MKR5+\$MKR6+\$MKR7
000235 0070 3029 \$MKB13 EQU \$MKB1+\$MKB2+\$MKB3
000236 000F 3030 \$MKB47 EQU \$MKB4+\$MKB5+\$MKB6+\$MKB7
000237 9090 3031 \$MKSTD EQU \$MKM1+\$MKI+\$MKR3+\$MKB3 STANDARD REGISTERS TO SAVE
000238 3032 *
000239 3033 *
000240 3034 *IV SAVED REGISTERS OFFSET
000241 3035 *
000242 FFFC 3036 \$IVLEV EQU Z'FFFF' LEVEL ASSOCIATED (SOFT)
000243 FFFF 3037 \$IVTSA EQU Z'FFFF' TSAP
000244 0000 3038 \$IVDEV EQU 0 DEVICE
000245 0001 3039 \$IVMSK EQU 1 MASK
000246 0003 3040 \$IVP EQU 3
000247 0004 3041 \$IVS EQU 4
000248 0005 3042 \$IVREG EQU 5 START OF REGISTERS
000249 000B 3043 \$IVB1 EQU 11
000250 000C 3044 \$IVI EQU 12
000251 0013 3045 \$IVR1 EQU 19
000252 0014 3046 \$IVM1 EQU 20
000253 001B 3047 \$IVT EQU 27

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|--------|------|------|---------------------------|---|
| 000254 | | 3048 | / EJECT | |
| 000255 | | 3049 | * | |
| 000256 | | 3050 | *TRAP SAVE AREA OFFSETS | |
| 000257 | | 3051 | * | |
| 000258 | 0000 | 3052 | \$TSAL EQU 0 | NEXT LINK |
| 000259 | 0001 | 3053 | \$TSAI EQU 1 | INDICATOR REGISTER |
| 000260 | 0002 | 3054 | \$TSAR3 EQU 2 | XR3 |
| 000261 | 0003 | 3055 | \$TSACM EQU 3 | COMMAND |
| 000262 | 0004 | 3056 | \$TSAZ EQU 4 | Z-WORD |
| 000263 | 0005 | 3057 | \$TSAA EQU 5 | ADDRESS |
| 000264 | 0006 | 3058 | \$TSAP EQU 6 | P-REGISTER |
| 000265 | 0001 | 3059 | \$TSAPX EQU \$TSAP-\$TSAA | P-REG AS ADDRESSED BY TRAP ROUTINE |
| 000266 | 0007 | 3060 | \$TSAB3 EQU 7 | XB3 |
| 000267 | 0003 | 3061 | \$TSATM EQU 8-\$TSAA | TEMP WORD |
| 000268 | 0008 | 3062 | \$TSAWD EQU 8 | FOR NON-TRAP ROUTINES, THE TEMP WORD |
| 000269 | 0009 | 3063 | \$TSALN EQU 9 | LENGTH OF TRAP SAVE AREA |
| 000270 | | 3064 | * | |
| 000271 | | 3065 | * | |
| 000272 | 6000 | 3066 | \$SRGP3 EQU Z'6000' | SREGISTER PRIORITY 3 |
| 000273 | | 3067 | * | |
| 000274 | | 3068 | * | |
| 000275 | | 3069 | *LEVEL INSTRUACION WORDS | |
| 000276 | | 3070 | * | |
| 000277 | 303F | 3071 | \$LVEXI EQU Z'803F' | SUSPEND, SCAN, AND DISPATCH |
| 000278 | 4000 | 3072 | \$LVSCH EQU Z'4000' | SCHEDULE INTERRUPT, DEFER |
| 000279 | 8000 | 3073 | \$LVEXE EQU Z'8000' | SUSPEND, SCAN, SCHEDULE, AND DISPATCH |
| 000280 | 0000 | 3074 | \$LVENT EQU Z'0000' | SCHEDULE, SCAN, DISPATCH (RETURN LATER) |
| 000281 | 0080 | 3075 | \$LVDIS EQU Z'0080' | INHIBIT |
| 000282 | 8080 | 3076 | \$LVDSX EQU Z'8080' | SUSPEND, INHIBIT |
| 000283 | 0000 | 3077 | \$LVDIE EQU \$LVENT+0 | CRASH LEVEL INSTRUCTIONS DATA |
| 000284 | | 3078 | * | |
| 000285 | | 3079 | *MODE REGISTER CONSTANTS | |
| 000286 | | 3080 | * | |
| 000287 | 8030 | 3081 | \$M1JST EQU Z'3080' | SET JUMP TRACE |
| 000288 | 3000 | 3082 | \$M1JRS EQU Z'8000' | RESET JUMP TRACE |
| 000289 | 0080 | 3083 | \$M1JTS EQU Z'0080' | TEST JUMP TRACE |

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|--------|------|------|------------------|--------------|--|
| 000290 | | 3084 | /EJECT | | |
| 000291 | | 3085 | * | | |
| 000292 | | 3086 | *ASSIGNED LEVELS | | |
| 000293 | | 3087 | * | | |
| 000294 | 0000 | 3088 | ERRLEV | EQU 0 | POWER FAIL AND CRASH LEVEL |
| 000295 | 0001 | 3089 | WDTLEV | EQU 1 | WATCH DOG TIMER LEVEL |
| 000296 | 0002 | 3090 | TSOVLV | EQU 2 | TRAP SAVE AREA OVERFLOW AREA |
| 000297 | 0003 | 3091 | HANGLV | EQU 3 | STARTUP AND HANG LEVEL |
| 000298 | 0004 | 3092 | RTCLEV | EQU 4 | REAL TIME CLOCK LEVEL |
| 000299 | 0005 | 3093 | WATLEV | EQU 5 | WATCH COPY LEVEL |
| 000300 | 0008 | 3094 | MCPLEV | EQU 8 | ASYNC MLCP LINE CARD |
| 000301 | 000A | 3095 | SX25LV | EQU 10 | SYNC MLCP LINE CARD (USING X25) |
| 000302 | 0010 | 3096 | CPLRLV | EQU 16 | COUPLER LEVELS (16,17,18,19) |
| 000303 | 0030 | 3097 | NETLEV | EQU 48 | X25 NETWORK PACKET LEVEL |
| 000304 | 0031 | 3098 | SBSCLV | EQU 49 | SYNC MLCP LINE CARD (USING BSC) |
| 000305 | 0036 | 3099 | CNSLEV | EQU 54 | CONSOLE HARDWARE LEVEL (BASE FOR SOFTWARE) |
| 000306 | 0037 | 3100 | SYCLEV | EQU CNSLEV+1 | SYSTEMS CONTROL LEVEL |
| 000307 | 0038 | 3101 | MSGLEV | EQU SYCLEV+1 | SYSTEMS MESSAGES LEVEL |
| 000308 | 003C | 3102 | DBGLEV | EQU 60 | DEBUGGER PRIMARY; SECONDARY=+1 |
| 000309 | 003E | 3103 | DEVLEV | EQU 62 | LOWEST LEVEL FOR INVERTED SYNCHRONIZATION |
| 000310 | | 3104 | * | | |
| 000311 | 0078 | 3105 | ONESEC | EQU 120 | CLOCK IS 120 TIMES PER SECOND (.0083333) |

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|--------|------|------|--------------------------------------|---|
| 000312 | | 4000 | /EJECT | |
| 000313 | | 4001 | * | |
| 000314 | | 4002 | * INPUT MESSAGE BUFFER DEFINITION | |
| 000315 | | 4003 | * | |
| 000316 | | 4004 | * FIRST BUFFER IN LINK WORD(0) | |
| 000317 | 0002 | 4005 | CURBUF EQU 2 | CURRENT BUFFER ADDRESS |
| 000318 | 0003 | 4006 | CURLEN EQU CURBUF+1 | CURRENT LENGTH |
| 000319 | 0004 | 4007 | NSBERR EQU CURLEN+1 | ERROR COUNTERS |
| 000320 | 0005 | 4008 | MFLAGS EQU NSBERR+1 | INTERNAL TO MESSAGE FLAGS |
| 000321 | | 4009 | * | |
| 000322 | | 4010 | * | |
| 000323 | | 4011 | * INTERNAL TO MESSAGE FLAGS (MFLAGS) | |
| 000324 | | 4012 | * | |
| 000325 | 8000 | 4013 | LTLONG EQU Z'8000' | LINE IS CURRENTLY TOO LONG |
| 000326 | 4000 | 4014 | IFINAL EQU Z'4000' | FINAL DELIVERY |
| 000327 | 2000 | 4015 | TRPCLK EQU Z'2000' | FINAL DELIVERY TRAPS CLOCKING READ |
| 000328 | | 4016 | * | |
| 000329 | | 4017 | * | |
| 000330 | | 4018 | *MESSAGE STYLE BLOCK DEFINITION | |
| 000331 | | 4019 | * | |
| 000332 | 0000 | 4020 | FRSTCK EQU 0 | FIRST CLOCK TO SET |
| 000333 | 0001 | 4021 | SCNDCK EQU FRSTCK+1 | SECOND (SUBSEQUENT) CLOCK TO SET |
| 000334 | 0002 | 4022 | INPMAX EQU SCNDCK+1 | MAX LINE LENGTH |
| 000335 | 0003 | 4023 | STYFGS EQU INPMAX+1 | INPUT STYLE BITS |
| 000336 | | 4024 | * | |
| 000337 | | 4025 | * | |
| 000338 | | 4026 | *DEFINITIONS OF INPUT STYPE BITS | |
| 000339 | | 4027 | * | |
| 000340 | 8000 | 4028 | UNEDIT EQU Z'8000' | DATA SHOULD NOT BE EDITED |
| 000341 | 4000 | 4029 | IGNLTL EQU Z'4000' | LINE TOO LONGS ARE IGNORED (ELSE MSG ABORT) |
| 000342 | 2000 | 4030 | IGNNSB EQU Z'2000' | NO-STOP-BIT ERRORS ARE COUNTED AND FLAGGED |
| 000343 | 1000 | 4031 | ESCQTL EQU Z'1000' | ESCAPES DONE WITH NO MESSAGE |
| 000344 | 0800 | 4032 | ESCDTA EQU Z'0800' | ESCAPE IS DATA (ELSE IT IS LINE CANCEL) |
| 000345 | 0400 | 4033 | BKRDIA EQU Z'0400' | BACKARROW IS DATA (ELSE IT IS CHARACTER DELETE) |
| 000346 | 0200 | 4034 | IGNENQ EQU Z'0200' | ENQUIRY IS IGNORED (ELSE MSG GENERATED) |
| 000347 | 0100 | 4035 | IGNLF D EQU Z'0100' | LINE FEEDS IGNORED (ELSE TREATED AS DATA) |
| 000348 | 0080 | 4036 | IGNDEL EQU Z'0080' | RUBOUTS ARE IGNORED (ELSE TREATED AS DATA) |
| 000349 | 0040 | 4037 | IGNULL EQU Z'0040' | NULLS ARE IGNORED (ELSE TREATED AS BREAK) |

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| | | | | |
|--------|-------|--------|---|--------------------------------|
| 000350 | 10000 | /EJECT | | |
| 000351 | 10010 | * | | |
| 000352 | 10020 | * | PACKET LEVEL X25 STYLE NETWORK PROCESSOR | |
| 000353 | 10030 | * | | |
| 000354 | 10040 | XDEF | INITNT | INITIALIZATION ROUTINE |
| 091B | | | | |
| 000355 | 10050 | * | | |
| 000356 | 10060 | XDEF | XNTOFL,XNTONL,XNTINC,XNTINM,XNTOTM | |
| 0000 | | | | |
| 009E | | | | |
| 0121 | | | | |
| 012A | | | | |
| 0512 | | | | |
| 000357 | 10070 | * | | |
| 000358 | 10080 | XDEF | NETSET,NETONL,NETBRK,NETRDY | |
| 0857 | | | | |
| 0881 | | | | |
| 08DE | | | | |
| 08CB | | | | |
| 000359 | 10090 | * | | |
| 000360 | 10100 | XDEF | NETMDS | X25 NETWORK USER MODE SETTINGS |
| 0855 | | | | |
| 000361 | 10110 | * | | |
| 000362 | 10120 | XLOC | TSKRTRN,TSKRTE | TASK RETURNS |
| 000363 | 10130 | * | | |
| 000364 | 10140 | XLOC | SMCPXT,CINMGX,CLOUTQ,CKOUTQ | SYNC ROUTINES |
| 000365 | 10150 | * | | |
| 000366 | 10160 | XLOC | \$IVECT,SERROR | LOW CORE |
| 000367 | 10170 | * | | |
| 000368 | 10180 | XLOC | GETBLK,RELBLK,GETMEM,RELMEM,FRBLKS | |
| 000369 | 10190 | XLOC | GFWBLK,GWORDF,PWORDG,GFBBLK | |
| 000370 | 10200 | XLOC | GBYTEF,GBYTEB,GBYTXB,PBYTEG,PBYTXG,SETBPT | |
| 000371 | 10210 | * | | |
| 000372 | 10220 | XLOC | ADDCLK,KILCLK | CLOCK ROUTINES |
| 000373 | 10230 | XLOC | ASNTSK,BLDTSK | TASK ROUTINES |
| 000374 | 10240 | * | | |
| 000375 | 10250 | XLOC | MGSTRT,MGCOPY,MGSEND,MGCHNL,MONNET | |
| 000376 | 10260 | XLOC | MGCHAR,MGHEX,MGHEXH | |
| 000377 | 10270 | * | | |
| 000378 | 10280 | XLOC | DEVKOT,DVGOUT,DVROUT,DQRBRK,DQRDSC | |
| 000379 | 10290 | XLOC | DVKINP,DVPINP,DVFINP,DVIMSG | |
| 000380 | 10300 | XLOC | NETINP,DEVMDS | |
| 000381 | 10310 | * | | |
| 000382 | 10320 | XLOC | NETCHK,NETCON,NETCNX,FNETBK | |
| 000383 | 10330 | * | | |
| 000384 | 10340 | XLOC | SYSCON | ADD USER TO SYSTEM |
| 000385 | 10350 | * | | |
| 000386 | 10360 | XLOC | M\$CURB | |

| | | | | |
|--------|------|-------|--|---|
| 000387 | | 10370 | /EJECT | |
| 000388 | | 10380 | * | |
| 000389 | | 10390 | *DEVICE BLOCK DEFINITION (PROTOTYPE) | |
| 000390 | | 10400 | * | |
| 000391 | | 10410 | *LEAVE ENOUGH ROOM FOR PRIORITY (CHANNEL) AND THREAD | |
| 000392 | | 10420 | * | |
| 000393 | 0002 | 10430 | SOFTQ EQU 2 | USER QUEUES BASED ON LEVEL NUMBER |
| 000394 | 0005 | 10440 | OUTQ EQU SOFTQ+3 | OUTPUT MESSAGES QUEUED |
| 000395 | 0003 | 10450 | DEVFGS EQU OUTQ+3 | FLAGS USED TO SUPPORT DEVICE |
| 000396 | 0009 | 10460 | TSKINF EQU DEVFGS+1 | POINTER TO TASK ROUTING |
| 000397 | 000A | 10470 | TSKRET EQU TSKINF+1 | TASK RETURN ADDRESS |
| 000398 | 000B | 10480 | INPLEV EQU TSKRET+1 | LEVEL OF USER WANTING INPUT |
| 000399 | 000C | 10490 | INPMMSG EQU INPLEV+1 | CURRENT INPUT MESSAGE |
| 000400 | 000D | 10500 | ICTLBK EQU INPMMSG+1 | CONTROL BLOCK FOR INPUT |
| 000401 | 000E | 10510 | OUTLEN EQU ICTLBK+1 | LENGTH OF ACTUAL OUTPUT TO BE SENT |
| 000402 | | 10520 | * | |
| 000403 | 000F | 10530 | DEVBKL EQU OUTLEN+1 | LENGTH OF PROTOTYPE FOR DEVICE |
| 000404 | | 10540 | * | |
| 000405 | | 10550 | * | |
| 000406 | | 10560 | *NETWORK USER BLOCK | |
| 000407 | | 10570 | * | |
| 000408 | 000F | 10580 | HOSTNT EQU DEVBKL | HOST NETWORK BLOCK ADDRESS |
| 000409 | | 10590 | * | |
| 000410 | 0010 | 10600 | NETBKL EQU HOSTNT+1 | LENGTH OF NETWORK USER DEVICE BLOCK |
| 000411 | | 10610 | * | |
| 000412 | | 10620 | * | |
| 000413 | | 10630 | *DEVICE BLOCK DEFINITION FOR SYNCHRONOUS PORTS | |
| 000414 | | 10640 | * | |
| 000415 | 0010 | 10650 | IBFMAX EQU NETBKL | INPUT MESSAGE BUFFER MAX |
| 000416 | 0011 | 10660 | PFLAGS EQU IBFMAX+1 | PROTOCOL FLAGS |
| 000417 | | 10670 | * | |
| 000418 | 0012 | 10680 | PCLFGS EQU PFLAGS+1 | PROTOCOL USAGE FLAGS |
| 000419 | 0013 | 10690 | GENCLK EQU PCLFGS+1 | GENERAL PURPOSE CLOCKS |
| 000420 | 0014 | 10700 | CLKVAL EQU GENCLK+1 | LAST VALUE LOADED INTO CLOCK |
| 000421 | 0015 | 10710 | MOTHER EQU CLKVAL+1 | MOTHER BOARD INFORMATION BLOCK |
| 000422 | 0016 | 10720 | CIVDEV EQU MOTHER+1 | LAST ACTUAL INTERRUPT DEV WORD |
| 000423 | 0017 | 10730 | DSSTAT EQU CIVDEV+1 | BITS 0-7=LAST DATA SET, 8-15=SPEED CODE |
| 000424 | | 10740 | * | |
| 000425 | 0018 | 10750 | IMSGFB EQU DSSTAT+1 | FIRST IN CHAIN OF INPUT |
| 000426 | 0019 | 10760 | IMSGFP EQU IMSGFB+1 | ..AND POINTER |
| 000427 | 001A | 10770 | IMSGLB EQU IMSGFP+1 | LAST IN CHAIN OF INPUT |
| 000428 | 001B | 10780 | IMSGLP EQU IMSGLB+1 | ..AND POINTER |
| 000429 | 001C | 10790 | IMSGMB EQU IMSGLP+1 | START OF MESSAGE |
| 000430 | 001D | 10800 | IMSGML EQU IMSGMB+1 | MESSAGE LENGTH |
| 000431 | 001E | 10810 | IMSGNB EQU IMSGML+1 | NEXT BUFFER TO BE RETURNED |
| 000432 | 001F | 10820 | IMSGCB EQU IMSGNB+1 | LAST BUFFER SUPPLIED |
| 000433 | | 10830 | * | |
| 000434 | 0020 | 10840 | ICCBCT EQU IMSGCB+1 | INPUT CCB COUNT |
| 000435 | 0021 | 10850 | ICCBST EQU ICCBCT+1 | INPUT CCB STATUS |
| 000436 | 0022 | 10860 | IBFCNT EQU ICCBST+1 | BUFFERS CURRENTLY USED FOR INPUT |
| 000437 | 0023 | 10870 | ICTLCD EQU IBFCNT+1 | CONTROL CODE LAST RECEIVED |
| 000438 | 0024 | 10880 | IERRCT EQU ICTLCD+1 | INPUT ERROR COUNTER |

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|--------|------|--------------|-----|---------------------------------------|
| 000439 | | 10890 * | | |
| 000440 | 0025 | 10900 OMSGFB | EQU | IERRCT+1 |
| 000441 | 0026 | 10910 OMSGFP | EQU | OMSGFB+1 |
| 000442 | 0027 | 10920 OMSGCB | EQU | OMSGFP+1 |
| 000443 | 0028 | 10930 OMSGCP | EQU | OMSGCB+1 |
| 000444 | 0029 | 10940 OMSGLB | EQU | OMSGCP+1 |
| 000445 | 002A | 10950 OMSGLP | EQU | OMSGLB+1 |
| 000446 | 002B | 10960 OMSGMB | EQU | OMSGLP+1 |
| 000447 | 002C | 10970 OMSGML | EQU | OMSGMB+1 |
| 000448 | | 10980 * | | LENGTH OF REMAINING MESSAGE |
| 000449 | 002D | 10990 OCCBCT | EQU | OMSGML+1 |
| 000450 | 002E | 11000 OCCBST | EQU | OCCBCT+1 |
| 000451 | 002F | 11010 OCTLCD | EQU | OCCBST+1 |
| 000452 | 0030 | 11020 OERRCT | EQU | OCTLCD+1 |
| 000453 | | 11030 * | | OUTPUT ERROR COUNTER |
| 000454 | 0031 | 11040 X25CMD | EQU | OERRCT+1 |
| 000455 | 0032 | 11050 X25FGS | EQU | X25CMD+1 |
| 000456 | 0033 | 11060 SPCMSG | EQU | X25FGS+1 |
| 000457 | | 11070 * | | X25 FRAME REJECT MESSAGE |
| 000458 | 0034 | 11080 STEMPS | EQU | SPCMSG+1 |
| 000459 | | 11090 * | | TEMPORARIES FOR SYNC LOGICAL ROUTINES |
| 000460 | 0040 | 11100 SMCPBL | EQU | STEMPS+12 |
| | | | | LENGTH OF SYNC BLOCK |

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| | | | | | |
|--------|------|-------|--|-------------|---|
| 000461 | | 11110 | / EJECT | | |
| 000462 | | 11120 | * | | |
| 000463 | | 11130 | *COMMON DEFINITIONS FOR DEVICE FLAGS (DEVFGS) | | |
| 000464 | | 11140 | * | | |
| 000465 | 8000 | 11150 | SONOFF | EQU Z'8000' | ONLINE/OFFLINE |
| 000466 | 4000 | 11160 | OFLTSK | EQU Z'4000' | OFFLINE TASK HAS BEEN SENT |
| 000467 | 2000 | 11170 | SYNASN | EQU Z'2000' | SYNC/ASYNC SWITCH |
| 000468 | | 11180 | * | | |
| 000469 | 0800 | 11190 | LINKUP | EQU Z'0800' | (X25) LINK IS IN LOGICALLY UP STATE |
| 000470 | 0400 | 11200 | RSTRTM | EQU Z'0400' | (X25) PACKET LEVEL NEEDS RESETTING |
| 000471 | 0200 | 11210 | RSTRTR | EQU Z'0200' | (X25) RESTART RECEIVED |
| 000472 | 0100 | 11220 | RSTRTX | EQU Z'0100' | (X25) RESTART SENT |
| 000473 | | 11230 | * | | |
| 000474 | | 11240 | * | | |
| 000475 | | 11250 | *COMMON DEFINITIONS FOR PFLAGS (PROTOCOL/SETTINGS) | | |
| 000476 | | 11260 | * | | |
| 000477 | 8000 | 11270 | SYNCRD | EQU Z'8000' | THIS PORT IS ON SYNC LINECARD |
| 000478 | 4000 | 11280 | HAFDUX | EQU Z'4000' | THIS CONNECTION IS USING HALF DUPLEX |
| 000479 | 2000 | 11290 | TRNSMG | EQU Z'2000' | MESSAGES ARE TRANSPARENT |
| 000480 | 1000 | 11300 | DIRCON | EQU Z'1000' | LINE IS DIRECTLY CONNECTED TO EQUIPMENT |
| 000481 | | 11310 | * | | |
| 000482 | 0800 | 11320 | INHUNG | EQU Z'0800' | WE ARE HUNG UP WAITING FOR INPUT RQST |
| 000483 | 0400 | 11330 | IDLEOT | EQU Z'0400' | WE ARE IDLE IF OUTPUT SHOULD ARRIVE |
| 000484 | 0200 | 11340 | X25PCL | EQU Z'0200' | X25 PROTOCOL |
| 000485 | 0100 | 11350 | BSCPCL | EQU Z'0100' | BYSYNCHRONOUS PROTOCOL |
| 000486 | | 11360 | * | | |
| 000487 | | 11370 | * | | |
| 000488 | | 11380 | *X25 STATES | | |
| 000489 | | 11390 | * | | |
| 000490 | 0080 | 11400 | LDNMOD | EQU Z'0080' | LINK DOWN |
| 000491 | 0040 | 11410 | LSUMOD | EQU Z'0040' | LINK SETUP |
| 000492 | 0020 | 11420 | LUPMOD | EQU Z'0020' | LINK UP |
| 000493 | 0010 | 11430 | LRSMOD | EQU Z'0010' | LINK RESET |
| 000494 | 0008 | 11440 | LDSMOD | EQU Z'0008' | LINK DISCONNECTING |
| 000495 | | 11450 | * | | |
| 000496 | 0004 | 11460 | DCEDTE | EQU Z'0004' | ACTING AS DCE(ON) OR DTE(OFF) |
| 000497 | | 11470 | * | | |
| 000498 | | 11480 | * | | |
| 000499 | | 11490 | *BSC STATES | | |
| 000500 | | 11500 | * | | |
| 000501 | 0080 | 11510 | TRNSLT | EQU Z'0080' | DATA IS TRANSLATED (A-E,E-A) |
| 000502 | 0040 | 11520 | CTLMOD | EQU Z'0040' | CONTROL STATE |
| 000503 | 0020 | 11530 | RCVMOD | EQU Z'0020' | RECEIVE STATE |
| 000504 | 0010 | 11540 | XMTMOD | EQU Z'0010' | TRANSMIT STATE |
| 000505 | | 11550 | * | | |
| 000506 | 0008 | 11560 | SP2780 | EQU Z'0008' | PROTOCOL IS FOR 2780 |
| 000507 | 0004 | 11570 | SP3780 | EQU Z'0004' | PROTOCOL IS FOR 3780 |
| 000508 | 0002 | 11580 | SPHASP | EQU Z'0002' | PROTOCOL IS FOR HASP |
| 000509 | 0001 | 11590 | SPDUAL | EQU Z'0001' | PROTOCOL IS DUAL LINES |

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|--------|------|-------|---|---|
| 000510 | | 11600 | /EJECT | |
| 000511 | | 11610 | * | |
| 000512 | | 11620 | *COMMON DEFINITIONS FOR PCLFGS (INTERNAL TO PROTOCOL) | |
| 000513 | | 11630 | * | |
| 000514 | 8000 | 11640 | FRCOFL EQU Z'8000' | WE ARE BEING FORCED OFFLINE |
| 000515 | 4000 | 11650 | DATAOK EQU Z'4000' | DATA TRANSFERS ARE ALLOWED OR IN PROGRESS |
| 000516 | 2000 | 11660 | RUNRCV EQU Z'2000' | RECEIVER IS RUNNING |
| 000517 | 1000 | 11670 | RUNXMT EQU Z'1000' | TRANSMITTER IS RUNNING |
| 000518 | | 11680 | * | |
| 000519 | | 11690 | * | |
| 000520 | | 11700 | *X25 STATES | |
| 000521 | | 11710 | * | |
| 000522 | 0800 | 11720 | IDLCLK EQU Z'0800' | CLOCK SET TO BREAK UP MONOTONY |
| 000523 | 0400 | 11730 | PRMSND EQU Z'0400' | MESSAGE CAME FROM PRIMARY/SECONDARY |
| 000524 | 0200 | 11740 | TORCVY EQU Z'0200' | IN TIMER RECOVERY CONDITION |
| 000525 | 0100 | 11750 | POLSNTR EQU Z'0100' | PRIMARY SENT POLLED COMMAND |
| 000526 | 0080 | 11760 | PRMPOL EQU Z'0080' | PRIMARY WOULD LIKE TO SEND POLLED COMMAND |
| 000527 | 0040 | 11770 | SNDPOL EQU Z'0040' | SECONDARY SENT POLLED COMMAND |
| 000528 | 0020 | 11780 | SNDREJ EQU Z'0020' | SECONDARY DETECTED OUT OF SEQUENCE |
| 000529 | 0010 | 11790 | SNDRNR EQU Z'0010' | SECONDARY INFORMED US OF UNWILLINGNESS |
| 000530 | 0008 | 11800 | REJSNT EQU Z'0008' | WE INFORMED SECONDARY OF REJECT |
| 000531 | 0004 | 11810 | PRMREJ EQU Z'0004' | WE WANT TO REJECT RECEIVED BLOCK |
| 000532 | 0002 | 11820 | RNRSNT EQU Z'0002' | WE INFORMED SECONDARY OF UNWILLINGNESS |
| 000533 | 0001 | 11830 | PRMRNR EQU Z'0001' | WE ARE NOT READY TO ACCEPT INPUT |
| 000534 | | 11840 | * | |
| 000535 | | 11850 | * | |
| 000536 | | 11860 | *BSC STATES | |
| 000537 | | 11870 | * | |
| 000538 | 0080 | 11880 | MDABRT EQU Z'0080' | ABORTING THIS MODE |
| 000539 | 0040 | 11890 | ENDATA EQU Z'0040' | THIS IS LAST PHYSICAL BUFFER |
| 000540 | 0020 | 11900 | SENTTD EQU Z'0020' | SENDING TEXT DELAY |
| 000541 | 0010 | 11910 | BIDDNG EQU Z'0010' | IN BIDDING SEQUENCE |
| 000542 | 0008 | 11920 | WACKNG EQU Z'0008' | IN WAIT RESPONSE CYCLE |
| 000543 | 0004 | 11930 | MBACKG EQU Z'0004' | RESPONSE MUST BE CORRECT ACK |
| 000544 | 0002 | 11940 | CBACKB EQU Z'0002' | RESPONSE COULD BE INCORRECT ACK |
| 000545 | 0001 | 11950 | NXTACK EQU Z'0001' | OFF=EVEN ACK...ON=ODD ACK |

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|--------|------|-------|--|---|
| 000546 | | 11960 | /EJECT | |
| 000547 | | 11970 | * | |
| 000548 | | 11980 | *TYMNET/X25 COMMON DEFINITIONS | |
| 000549 | | 11990 | * | |
| 000550 | 0034 | 12000 | MSGBUF EQU STEMPS | MESSAGE BUFFER |
| 000551 | 0035 | 12010 | MSGPTR EQU MSGBUF+1 | MESSAGE POINTER |
| 000552 | 0036 | 12020 | MSGLEN EQU MSGPTR+1 | MESSAGE LENGTH |
| 000553 | | 12030 | * | |
| 000554 | 0037 | 12040 | SVCUSR EQU MSGLEN+1 | USER LAST SERVICED |
| 000555 | 0038 | 12050 | LSTUSR EQU SVCUSR+1 | LAST USER TO SERVICE |
| 000556 | 0039 | 12060 | ADDRESS EQU LSTUSR+1 | ADDRESS OF MESSAGE USER |
| 000557 | 003A | 12070 | COMAND EQU ADDRESS+1 | COMMAND CODE |
| 000558 | | 12080 | * | |
| 000559 | | 12090 | *X25 (RE-)DEFINITIONS | |
| 000560 | | 12100 | * | |
| 000561 | 003B | 12110 | MSGHDR EQU COMAND+1 | FIRST BUFFER IN MESSAGE |
| 000562 | 003C | 12120 | CONQ EQU MSGHDR+1 | CONNECTION MESSAGES |
| 000563 | 003F | 12130 | NETUSR EQU CONQ+3 | MAP BLOCK IN USE |
| 000564 | | 12140 | * | |
| 000565 | 000E | 12150 | NETMAP EQU OUTLEN | MAP OF NETWORK USERS |
| 000566 | 000C | 12160 | RNTCLK EQU INPMMSG | RE-REINIT CLOCK |
| 000567 | | 12170 | * | |
| 000568 | | 12180 | * | |
| 000569 | | 12190 | *ADDITIONAL DEVICE FLAG (DEVFGS) DEFINITIONS | |
| 000570 | | 12200 | * | |
| 000571 | 0020 | 12210 | TSKSNT EQU Z'0020' | (NETWORK) OUTPUT FILL TASK SENT |
| 000572 | 0010 | 12220 | CLKPRC EQU Z'0010' | (NETWORK) PROCESSING FOR CLOCK |
| 000573 | | 12230 | * | |
| 000574 | 0080 | 12240 | BRKACT EQU Z'0080' | (NETUSER) BREAK ACTIVE |
| 000575 | 0040 | 12250 | DCRDTA EQU Z'0040' | (NETUSER) DISCARD ANY DATA RECEIVED |
| 000576 | 0020 | 12260 | QMFLSH EQU Z'0020' | (NETUSER) FLUSH QUALIFIED MESSAGES |
| 000577 | | 12270 | * | |
| 000578 | | 12280 | *NOTE:DONT VARY THESE FROM TYMNETS | |
| 000579 | 0008 | 12290 | OTPURE EQU Z'0008' | (NETUSER) OUTPUT SHOULD BE SENT PURE |
| 000580 | 0004 | 12300 | OTWAIT EQU Z'0004' | (NETUSER) OUTPUT MUST WAIT |
| 000581 | 0002 | 12310 | IGNRLF EQU Z'0002' | (NETUSER) IGNORE L/F IF FIRST IN OUTPUT QUEUE |
| 000582 | 0001 | 12320 | INOTWT EQU Z'0001' | (NETUSER) INPUT CAUSING OUTPUT TO WAIT |

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|--------|------|-------|-----------------------------|--|
| 000583 | | 12330 | /EJECT | |
| 000584 | | 12340 | * | |
| 000585 | | 12350 | *DEFINITIONS OF NETUSR PAIR | |
| 000586 | | 12360 | * | |
| 000587 | | 12370 | *PRIMARY FLAGS IN 0 | |
| 000588 | 0001 | 12380 | NETFGS EQU 1 | ADDITION FLAGS |
| 000589 | 0002 | 12390 | TOCLOCK EQU 2 | TIMEOUT CLOCK |
| 000590 | 0003 | 12400 | RRCLOCK EQU 3 | RECEIVE READY CLOCK |
| 000591 | 0004 | 12410 | NETBLK EQU 4 | DEVICE BLOCK OF NETWORK |
| 000592 | 0005 | 12420 | NETADR EQU 5 | ADDRESS ASSOCIATED WITH THIS BLOCK |
| 000593 | 0006 | 12430 | NTINFO EQU 6 | (AND 7) CONNECT INFORMATION |
| 000594 | | 12440 | * | |
| 000595 | E000 | 12450 | X\$MODE EQU Z'E000' | STATE OF LINE |
| 000596 | | 12460 | * | |
| 000597 | 2000 | 12470 | X\$TWIG EQU Z'2000' | DTE WAITING FOR CALL CONNECTED |
| 000598 | 4000 | 12480 | X\$CWIG EQU Z'4000' | DCE WAITING FOR CALL ACCEPTED |
| 000599 | 6000 | 12490 | X\$TCLR EQU Z'6000' | DTE WAITING FOR CLEAR INDICATION |
| 000600 | 8000 | 12500 | X\$CCLR EQU Z'8000' | DCE WAITING FOR CLEAR CONFIRMATION |
| 000601 | A000 | 12510 | X\$ITTX EQU Z'A000' | CONNECTION IN INFORMATION TRANSFER STATE (DTE) |
| 000602 | C000 | 12520 | X\$ICTX EQU Z'C000' | CONNECTION IN INFORMATION TRANSFER STATE (DCE) |
| 000603 | | 12530 | * | |
| 000604 | 1000 | 12540 | RSPOND EQU Z'1000' | SEND COMMAND/RESPONSE (CI,CC,OI,OC,II,IC) |
| 000605 | 0800 | 12550 | OUROWN EQU Z'0800' | CONNECTION INITIATED BY OURSELVES |
| 000606 | 0400 | 12560 | DCERNR EQU Z'0400' | DCE INDICATED INABILITY TO RECEIVE |
| 000607 | | 12570 | * | |
| 000608 | 0010 | 12580 | DTEPSN EQU Z'0010' | DTE PACKET SEQUENCE NUMBER |
| 000609 | 0002 | 12590 | DTEPSF EQU Z'0002' | DTE PACKETS FILLED WINDOW |
| 000610 | 0003 | 12600 | DTEPSC EQU Z'0003' | DTE PACKET COUNT |
| 000611 | 0001 | 12610 | DTEPSI EQU Z'0001' | DTE PACKET COUNTER |
| 000612 | | 12620 | * | |
| 000613 | | 12630 | * | |
| 000614 | | 12640 | *DEFINITIONS OF NETFGS | |
| 000615 | | 12650 | * | |
| 000616 | 8000 | 12660 | DTERNR EQU Z'8000' | RECEIVE NOT READY SENT |
| 000617 | 4000 | 12670 | DTEHNG EQU Z'4000' | NOT READY TO RECEIVE NEXT PACKET |
| 000618 | 2000 | 12680 | DTECLK EQU Z'2000' | RECEIVE READY CLOCK RUNNING |
| 000619 | | 12690 | * | |
| 000620 | 0100 | 12700 | DCEPSN EQU Z'0100' | DCE PACKET SEQUENCE NUMBER |
| 000621 | 0038 | 12710 | DCEPSX EQU Z'0038' | DCE PACKET WINDOW SIZE |
| 000622 | 0007 | 12720 | DCEPSF EQU Z'0007' | DCE PACKETS FILLED |
| 000623 | 0001 | 12730 | DCEPSI EQU Z'0001' | DCE PACKET COUNTER |
| 000624 | | 12740 | * | |
| 000625 | 0012 | 12750 | DCEPXX EQU Z'0012' | INITIAL DCE WINDOW SIZE SET TO (2) |

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| | | | | |
|--------|------|-------|----------------------------|------------------------------|
| 000626 | | 12760 | /EJECT | |
| 000627 | | 12770 | * | |
| 000628 | | 12780 | *X25 PACKET LEVEL COMMANDS | |
| 000629 | | 12790 | * | |
| 000630 | 000B | 12800 | \$X25CI EQU Z'000B' | INCOMING CALL |
| 000631 | 000F | 12810 | \$X25CC EQU Z'000F' | CALL ACCEPTED |
| 000632 | 0013 | 12820 | \$X25OI EQU Z'0013' | CLEAR INDICATION |
| 000633 | 0017 | 12830 | \$X25OC EQU Z'0017' | CLEAR CONFIRMATION |
| 000634 | 0023 | 12840 | \$X25II EQU Z'0023' | INTERRUPT INDICATION |
| 000635 | 0027 | 12850 | \$X25IC EQU Z'0027' | INTERRUPT CONFIRMATION |
| 000636 | 00FB | 12860 | \$X25RI EQU Z'00FB' | RESTART INDICATION |
| 000637 | 00FF | 12870 | \$X25RC EQU Z'00FF' | RESTART CONFIRMATION |
| 000638 | | 12880 | * | |
| 000639 | 0001 | 12890 | \$X25RR EQU Z'0001' | RECEIVE READY |
| 000640 | 0005 | 12900 | \$X25NR EQU Z'0005' | RECEIVE NOT READY |
| 000641 | | 12910 | * | |
| 000642 | 0010 | 12920 | \$X25MB EQU Z'0010' | MORE DATA QUALIFIER |
| 000643 | | 12930 | * | |
| 000644 | | 12940 | * | |
| 000645 | 0005 | 12950 | HDRLEN EQU 5 | ADR,CMD,GID,LCN,CMD IN TEXT |
| 000646 | | 12960 | * | |
| 000647 | 0080 | 12970 | NETMPL EQU 128 | NETWORK MAP LENGTH |
| 000648 | | 12980 | * | |
| 000649 | 0800 | 12990 | X25TIP EQU Z'0800' | TIPID CONVERTS TO 'A@' |
| 000650 | | 13000 | * | |
| 000651 | | 13010 | * | |
| 000652 | | 13020 | *DEVICE MESSAGE CONSTANTS | |
| 000653 | | 13030 | * | |
| 000654 | 0001 | 13040 | XINNSB EQU 1 | INPUT FRAMING ERROR DETECTED |
| 000655 | 0002 | 13050 | XINESC EQU 2 | WE ESCAPED USERS INPUT |
| 000656 | 0003 | 13060 | XINDEL EQU 3 | USER DELETED INPUT |

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|--------|------|-------|-----------------------------|--------------------------|
| 000657 | | 13070 | /EJECT | |
| 000658 | | 13080 | * | |
| 000659 | | 13090 | *DATA QUALIFIERS | |
| 000660 | | 13100 | * | |
| 000661 | 0000 | 13110 | Q\$PRMS EQU Z'0000' | PARAMETERS |
| 000662 | 0001 | 13120 | Q\$IDSC EQU Z'0001' | INVITATION TO CLEAR |
| 000663 | 0002 | 13130 | Q\$STPM EQU Z'0002' | SET PARAMETERS |
| 000664 | 0003 | 13140 | Q\$IBRK EQU Z'0003' | INDICATION OF BREAK |
| 000665 | 0004 | 13150 | Q\$RDPM EQU Z'0004' | READ PARAMETERS |
| 000666 | 0005 | 13160 | Q\$FLAW EQU Z'0005' | ERROR IN PROCESS |
| 000667 | 0006 | 13170 | Q\$SRPM EQU Z'0006' | SET AND READ PARAMETERS |
| 000668 | | 13180 | * | |
| 000669 | 0007 | 13190 | Q\$CMAX EQU Z'0007' | FIRST INVALID PARAMETER |
| 000670 | | 13200 | * | |
| 000671 | | 13210 | * | |
| 000672 | | 13220 | *PARAMETER VALUES | |
| 000673 | | 13230 | * | |
| 000674 | 0000 | 13240 | P\$MARK EQU Z'0000' | NATIONAL MARKER |
| 000675 | 0004 | 13250 | P\$TIMR EQU Z'0004' | INTERVAL TIMER |
| 000676 | 0007 | 13260 | P\$SBRK EQU Z'0007' | SET BREAK |
| 000677 | 0008 | 13270 | P\$DSOT EQU Z'0008' | DISCARD OUTPUT |
| 000678 | 000A | 13280 | P\$LFLD EQU Z'000A' | SET LINE FOLDING |
| 000679 | 000B | 13290 | P\$RSPD EQU Z'000B' | READ SPEED |
| 000680 | | 13300 | * | |
| 000681 | | 13310 | *PARAMETER COMMAND PAIRS | |
| 000682 | | 13320 | * | |
| 000683 | 000B | 13330 | PM\$RSP EQU Z'0000'+P\$RSPD | READ SPEED |
| 000684 | 1507 | 13340 | PM\$BRK EQU Z'1500'+P\$SBRK | SET BREAK TO STANDARD |
| 000685 | 0008 | 13350 | PM\$ENO EQU Z'0000'+P\$DSOT | SET DISCARD OUTPUT FALSE |
| 000686 | 0108 | 13360 | PM\$DSO EQU Z'0100'+P\$DSOT | SET DISCARD OUTPUT TRUE |

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| | | | | | | | | |
|--------|------|-----------|-------|--------------------------------------|--------------|--------------------------|---|-------------------|
| 000687 | | | 13370 | / EJECT | | | | |
| 000688 | | | 13380 | * | | | | |
| 000689 | | | 13390 | * X25 STYLE NETWORK IS GOING OFFLINE | | | | |
| 000690 | | | 13400 | * | | | | |
| 000691 | 0000 | FCC4 000F | 13410 | XNTOFL LDB | B7,B4+HOSTNT | USE NETWORK DEVICE BLOCK | | |
| 000692 | 0002 | 8DD7 | 13420 | CMN | =B7 | | | |
| 000693 | 0003 | 0900 | T | 13430 | BE | .2 | NEVER DEVELOPED...MUST BE SIGN OFF CALL | |
| 000694 | 0004 | 8747 0008 | | 13440 | CL | B7+DEVFGS | FORCE OFFLINE | |
| 000695 | 0006 | 8747 0011 | | 13450 | CL | B7+PFLAGS | | |
| 000696 | 0008 | EB80 0053 | | 13460 | LAB | B6,XNETOF | CLEAR ALL USERS FROM NETWORK | |
| 000697 | 000A | 5C30 | | 13470 | LDV | R5,NETLEV | | |
| 000698 | 000B | 82C4 0008 | | 13480 | LB | B4+DEVFGS,SONOFF | ARE WE REMAINING UP? | |
| | 000D | 8000 | | | | | | |
| 000699 | 000E | 0580 | T | 13490 | BBF | .1 | NO -- DO THINGS DIFFERENTLY | |
| 000700 | 000F | B380 0000 | X | 13500 | LNJ | B3,BLDTSK | BUILD TASK | |
| 000701 | 0011 | 0F80 | T | 13510 | B | .3 | | |
| 000702 | | | | 13520 | * | | | |
| 000703 | 0012 | EB80 0033 | | 13530 | .1 | LAB | SEND COMPLETELY OFF | |
| 000704 | 0C14 | B380 0000 | X | 13540 | LNJ | B3,BLDTSK | | |
| 000705 | 0016 | 8744 000F | | 13550 | CL | B4+HOSTNT | NO LONGER A NETWORK CONNECTED | |
| 000706 | | | | 13560 | * | | | |
| 000707 | 0018 | 9CD7 | | 13570 | LDB | B1,=B7 | REMOVE PACKET NETWORK | |
| 000708 | 0C19 | AB80 0900 | | 13580 | LAB | B2,NETQ | FROM NETWORK QUEUE | |
| 000709 | 001B | 0060 | | 13590 | DQA | | | |
| 000710 | 001C | 0680 08FC | | 13600 | BCF | NETERR | HANDLE FUNNY MACHINE | |
| 000711 | 001E | 0980 08FC | | 13610 | BNE | NETERR | HANDLE FUNNY SOFTWARE | |
| 000712 | | | | 13620 | * | | | |
| 000713 | 0020 | E804 | | 13630 | .2 | LDR | PRINT CHANNEL MESSAGE | |
| 000714 | 0021 | FCD4 | | 13640 | LDB | B7,=B4 | | |
| 000715 | 0022 | D380 0000 | X | 13650 | LNJ | B5,MGCHNL | | |
| 000716 | 0024 | 002A | | 13660 | DC | <NTDSMG | SEND NETWORK DISCONNECT MESSAGE | |
| 000717 | 0025 | 0012 | | 13670 | DC | NTDSML*2 | | |
| 000718 | 0026 | 0000 | | 13680 | DC | Z'0000' | SEND MESSAGE AS IS | |
| 000719 | 0027 | CCD7 | | 13690 | LDB | B4,=B7 | RESTORE DEVICE BLOCK | |
| 000720 | | | | 13700 | * | | | |
| 000721 | 0028 | 8380 0000 | X | 13710 | .3 | JMP | TSKRTN | USE NORMAL RETURN |
| 000722 | | | | 13720 | * | | | |
| 000723 | 002A | 4E45 | | 13730 | NTDSMG | DC | 'NETWORK DISCONNECT' | |
| | 002B | 5457 | | | | | | |
| | 002C | 4F52 | | | | | | |
| | 002D | 4B20 | | | | | | |
| | 002E | 4449 | | | | | | |
| | 002F | 5343 | | | | | | |
| | 0030 | 4F4E | | | | | | |
| | 0031 | 4E45 | | | | | | |
| | 0032 | 4354 | | | | | | |
| 000724 | | 0009 | | 13740 | NTDSML | EQU | \$-NTDSMG | |

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|--------|------|-----------|-------|--|--|--|
| 000725 | | | 13750 | /EJECT | | |
| 000726 | | | 13760 | * | | |
| 000727 | | | 13770 | * LINK OF X25 STYLE NETWORK HAS BEEN RESET | | |
| 000728 | | | 13780 | * | | |
| 000729 | 0033 | CCD7 | 13790 | XNTOFF LDB B4,=B7 | ADJUST REGISTERS | |
| 000730 | 0034 | 8DC4 000E | 13800 | CMN B4+NETMAP | IF MAP NEVER ASSIGNED THEN EXIT | |
| 000731 | 0036 | 0900 | T | 13810 BE .1 | RELEASE NETWORK STORAGE | |
| 000732 | | | 13820 | * | | |
| 000733 | 0037 | B380 005A | 13830 | LNJ B3,CLRNET | CLEAR NETWORK USERS | |
| 000734 | | | 13840 | * | | |
| 000735 | 0039 | 9CC4 000E | 13850 | LDB B1,B4+NETMAP | RELEASE NETWORK MAP | |
| 000736 | 003B | ABC1 0086 | 13860 | LAB B2,B1+NETMPL+7-1 | | |
| 000737 | 003D | B380 0000 | X | 13870 LNJ B3,RELMEM | | |
| 000738 | | | 13880 | * | | |
| 000739 | 003F | B380 0000 | X | 13890 LNJ B3,CINMGX | CLEAR PENDING INPUT MESSAGES | |
| 000740 | 0041 | 4CFF | | 13900 LDV R4,-1 | | |
| 000741 | 0042 | D380 0000 | X | 13910 LNJ B5,CLOUDQ | CLEAR PENDING OUTPUT MESSAGES | |
| 000742 | | | 13920 | * | | |
| 000743 | 0044 | 9CC4 0018 | 13930 | LDB B1,B4+IMSGFB | RETURN INPUT MESSAGE QUEUE | |
| 000744 | 0046 | E380 0000 | X | 13940 LNJ B6,FRBLKS | | |
| 000745 | 0048 | 9CC4 0025 | 13950 | LDB B1,B4+OMSGFB | RETURN OUTPUT MESSAGE QUEUE | |
| 000746 | 004A | E380 0000 | X | 13960 LNJ B6,FRBLKS | | |
| 000747 | | | 13970 | * | | |
| 000748 | 004C | 9CD4 | 13980 | .1 LDB B1,=B4 | RELEASE NETWORK DEVICE BLOCK | |
| 000749 | 004D | ABC1 0046 | 13990 | LAB B2,B1+SMCPBL+7-1 | | |
| 000750 | 004F | B380 0000 | X | 14000 LNJ B3,RELMEM | | |
| 000751 | | | 14010 | * | | |
| 000752 | 0051 | 8380 0000 | X | 14020 .2 JMP SMCPXT | WAIT FOR SOMETHING INTERESTING TO HAPPEN | |
| 000753 | | | 14030 | * | | |
| 000754 | | | 14040 | * | | |
| 000755 | | | 14050 | * LINK OF X25 STYLE NETWORK HAS BEEN RESET | | |
| 000756 | | | 14060 | * | | |
| 000757 | 0053 | CCD7 | 14070 | .XNETOF LDB B4,=B7 | ADJUST REGISTERS | |
| 000758 | 0054 | 8DC4 000E | 14080 | CMN B4+NETMAP | IF MAP NEVER ASSIGNED THEN EXIT | |
| 000759 | 0056 | 097B | T | 14090 BE .2 | | |
| 000760 | 0057 | B380 005A | | 14100 LNJ B3,CLRNET | CLEAR NETWORK USERS | |
| 000761 | 0059 | OFF8 | T | 14110 B .2 | THEN VAPORIZ | |

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|--------|------|-----------|-------|-------------------------------------|--------------------------------------|
| 000762 | | | 14120 | /EJECT | |
| 000763 | | | 14130 | * | |
| 000764 | | | 14140 | *ROUTINE TO CLEAR ALL NETWORK USERS | |
| 000765 | | | 14150 | * | |
| 000766 | 005A | BFC4 000A | 14160 | CLRNET STB B3,B4+TSKRET | SAVE RETURN IN AVAILABLE SLOT |
| 000767 | 005C | B380 022F | 14170 | LNJ B3,RSTRNK | RESET RE-INIT CLOCK |
| 000768 | | | 14180 | * | |
| 000769 | 005E | ABC4 0002 | 14190 | .1 LAB B2,B4+SOFTQ | SCAN FOR ACTIVE USERS |
| 000770 | 0060 | 8755 | 14200 | CL R5 | ANY WILL DO |
| 000771 | 0061 | 0062 | 14210 | DQH | FIND NEXT USER |
| 000772 | 0062 | 0680 08FC | 14220 | BCF NETERR | HANDLE FUNNY MACHINE |
| 000773 | 0064 | 0200 | T | 14230 BL .2 | NONE LEFT -- INFORM OPERATIONS |
| 000774 | | | 14240 | * | |
| 000775 | 0065 | CCD1 | 14250 | LDB B4,=B1 | COPY OVER |
| 000776 | 0066 | D380 0000 | X | 14260 LNJ B5,DQRDSC | GIVE OFFLINE RETURN TO ALL PARTIES |
| 000777 | 0068 | D380 0000 | X | 14270 LNJ B5,DEVKOT | KILL ANY AND ALL QUEUED OUTPUT |
| 000778 | 006A | D380 0000 | X | 14280 LNJ B5,DVKINP | KILL ANY REMAINING INPUT |
| 000779 | | | 14290 | * | |
| 000780 | 006C | 9CD4 | 14300 | LDB B1,=B4 | FREE BLOCK |
| 000781 | 006D | B380 0000 | X | 14310 LNJ B3,FNETBK | |
| 000782 | 006F | 0FEF | T | 14320 B .1 | LOOP UNTIL ALL USERS GO AWAY |
| 000783 | | | 14330 | * | |
| 000784 | 0070 | E870 0080 | 14340 | .2 LDR R6,=128 | SCAN BACK THROUGH ALL USERS |
| 000785 | 0072 | EF44 0039 | 14350 | STR R6,B4+ADDRSS | |
| 000786 | | | 14360 | * | |
| 000787 | 0074 | E8C4 0039 | 14370 | .3 DEC B4+ADDRSS | ONE LESS IN LOOP |
| 000788 | 0076 | A844 0039 | 14380 | LDR R2,B4+ADDRSS | |
| 000789 | 0078 | 2800 | T | 14390 BLZ R2,.4 | IF LOODED THEN EXIT |
| 000790 | | | 14400 | * | |
| 000791 | 0079 | ACC4 000E | 14410 | LDB B2,B4+NETMAP | CREATE POINTER TO VIRTUAL CONNECTION |
| 000792 | 007B | 8DA2 | 14420 | CMN B2+R2 | |
| 000793 | 007C | 0978 | T | 14430 BE .3 | NONE FOUND |
| 000794 | 007D | 9C80 08FB | 14440 | LDB B1,ZERO | LOAD AND RESET CELL |
| 000795 | 007F | 9EA2 | 14450 | SWB B1,B2+R2 | |
| 000796 | 0080 | 9FC4 003F | 14460 | STB B1,B4+NETUSR | |
| 000797 | 0082 | D380 07BC | 14470 | LNJ B5,CLRUSR | FREE ANY USER STORAGE FOR THIS PORT |
| 000798 | 0084 | B380 0797 | 14480 | LNJ B3,KTOCLK | RESET TIMEOUT CLOCK |
| 000799 | 0086 | B380 079C | 14490 | LNJ B3,KRRCLK | RESET RECEIVE RESPONSE CLOCK |
| 000800 | 0088 | 9CC4 003F | 14500 | LDB B1,B4+NETUSR | FREE NETWORK USER BLOCK |
| 000801 | 008A | B380 0000 | X | 14510 LNJ B3,RELBLK | |
| 000802 | 008C | 0FE8 | T | 14520 B .3 | LOOP FOR ANOTHER |
| 000803 | | | 14530 | * | |
| 000804 | 008D | E804 | 14540 | .4 LDR R6,B4 | PRINT CHANNEL MESSAGE |
| 000805 | 008E | FCD4 | 14550 | LDB B7,=B4 | |
| 000806 | 008F | D380 0000 | X | 14560 LNJ B5,MGCHNL | SEND LINK RESET MESSAGE |
| 000807 | 0091 | 0097 | 14570 | DC <NTLDMG | |
| 000808 | 0092 | 000E | 14580 | DC NTLDML*2 | |
| 000809 | 0093 | 0000 | 14590 | DC Z'0000' | SEND MESSAGE AS IS |
| 000810 | 0094 | CCD7 | 14600 | LDB B4,=B7 | RESTORE DEVICE BLOCK |
| 000811 | | | 14610 | * | |
| 000812 | 0095 | 83CC 000A | 14620 | JMP (B4+TSKRET) | RETURN TO CALLER |
| 000813 | | | 14630 | * | |

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000814 0097 5832 14640 NTLDMG DC 'X25 LINK RESET'
0098 3520
0099 4C49
009A 4E4B
009B 2052
009C 4553
009D 4554

000815 0007 14650 NTLDML EQU \$-NTLDMG

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|--------|------|-----------|----------|-------------------------------------|-------------------------------------|
| 000816 | | | 14660 | /EJECT | |
| 000817 | | | 14670 | * | |
| 000818 | | | 14680 | * X25 SYTLE NETWORK HAS COME ONLINE | |
| 000819 | | | 14690 | * | |
| 000820 | 009E | FCC4 000F | 14700 | XNTNL LDB B7,B4+HOSTNT | USE NETWORK DEVICE BLOCK |
| 000821 | 00A0 | 8DD7 | 14710 | CMN =B7 | |
| 000822 | 00A1 | 0900 | T 14720 | BE .1 | NOT CREATED YET |
| 000823 | 00A2 | E844 0011 | 14730 | LDR R6,B4+PFLAGS | COPY INFO FROM DEVICE TO NETWORK |
| 000824 | 00A4 | 8856 | 14740 | LBF R6, IDLEOT | CANNOT ACCEPT CALLBACK |
| | 00A5 | 0400 | | | |
| 000825 | 00A6 | EF47 0011 | 14750 | STR R6,B7+PFLAGS | |
| 000826 | 00A8 | 8947 0008 | 14760 | LBT B7+DEVFGS,SONOFF+RSTRTM | GO ONLINE IN RESTART MODE |
| | 00AA | 8400 | | | |
| 000827 | | | 14770 | * | |
| 000828 | 00AB | 8747 0038 | 14780 | CL B7+LSTUSR | RESET SCAN POINTERS |
| 000829 | 00AD | 8747 0037 | 14790 | CL B7+SVCUSR | |
| 000830 | | | 14800 | * | |
| 000831 | 00AF | E804 | 14810 | LDR R6,B4 | PRINT CONNECTED MESSAGE |
| 000832 | 00B0 | FCD4 | 14820 | LDB B7,=B4 | |
| 000833 | 00B1 | D380 0000 | X 14830 | LNJ B5, MGCHNL | |
| 000834 | 00B3 | 0118 | 14840 | DC <NTLUMG | SEND LINK UP MESSAGE |
| 000835 | 00B4 | 000C | 14850 | DC NTLUML*2 | |
| 000836 | 00B5 | 0000 | 14860 | DC Z'0000' | SEND MESSAGE AS IS |
| 000837 | 00B6 | CC07 | 14870 | LDB B4,=B7 | RESTORE DEVICE BLOCK |
| 000838 | | | 14880 | * | |
| 000839 | 00B7 | 8380 0000 | X | 14890 JMP TSKRTN | NORMAL RETURN TO INDICATE WE ARE UP |
| 000840 | | | 14900 | * | |
| 000841 | 00B9 | 3C40 | 14910 .1 | LDV R3,SMCPBL | ALLOCATE NETWORK DEVICE BLOCK |
| 000842 | 00BA | B380 0000 | X | 14920 LNJ B3,GETMEM | |
| 000843 | 00BC | 8380 0000 | X | 14930 JMP TSKRTE | EXCEPTION RETURN KNOCKS US OFFLINE |
| 000844 | | | 14940 | * | |
| 000845 | 00BE | 88D3 | 14950 | DEC R3 | |
| 000846 | 00BF | 8733 | 14960 .2 | CL B3+R3 | ZERO DEVICE BLOCK |
| 000847 | 00C0 | 377F | T 14970 | BDEC R3,.2 | |
| 000848 | | | 14980 | * | |
| 000849 | 00C1 | FCD3 | 14990 | LDB B7,=B3 | ADJUST REGISTERS |
| 000850 | 00C2 | FFC4 000F | 15000 | STB B7,B4+HOSTNT | POINT TO NETWORK FROM DEVICE |
| 000851 | 00C4 | FFC7 000F | 15010 | STB B7,B7+HOSTNT | POINT BACK TO OURSELVES |
| 000852 | 00C6 | CFC7 0015 | 15020 | STB B4,B7+MOTHER | POINT TO DEVICE FROM NETWORK |
| 000853 | 00C8 | 8C53 | 15030 | STS R3 | |
| 000854 | 00C9 | B570 003F | 15040 | AND R3,'003F' | ISOLATE LEVEL OF CALLER |
| 000855 | 00CB | BF47 0009 | 15050 | STR R3,B7+TSKINF | |
| 000856 | | | 15060 | * | |
| 000857 | 00CD | 9CD7 | 15070 | LDB B1,=B7 | ADD NETWORK TO QUEUE |
| 000858 | 00CE | D804 | 15080 | LDR R5,B4 | |
| 000859 | 00CF | AB80 0900 | 15090 | LAB B2,NETQ | |
| 000860 | 00D1 | 0063 | 15100 | QOH | |
| 000861 | 00D2 | 0680 08FC | 15110 | BCF NETERR | HANDLE FUNNY MACHINE |
| 000862 | | | 15120 | * | |
| 000863 | 00D4 | B870 0080 | 15130 | LDR R3,=NETMPL | ALLOCATE NETWORK MAP |
| 000864 | 00D6 | B380 0000 | X 15140 | LNJ B3,GETMEM | |
| 000865 | 00D8 | 8380 0000 | X | 15150 JMP TSKRTE | EXCEPTION RETURN KNOCKS US OFFLINE |

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|--------|------|-----------|----------|--------------|---------------------|
| 000866 | | | 15160 * | | |
| 000867 | 00DA | 88D3 | 15170 | DEC | R3 |
| 000868 | 00DE | 8733 | 15180 .4 | CL | B3+R3 |
| 000869 | 00DC | 377F | T | BDEC | R3,.4 |
| 000870 | | | 15200 * | | |
| 000871 | 00DD | BFC7 000E | 15210 | STB | B3,B7+NETMAP |
| 000872 | 0CDF | E380 0000 | X | 15220 | LNJ |
| 000873 | 00E1 | 9FC7 0018 | | 15230 | STB |
| 000874 | 00E3 | 9F47 0019 | | 15240 | STR |
| 000875 | 00E5 | 9FC7 001A | | 15250 | STB |
| 000876 | 00E7 | 9F47 001B | | 15260 | STR |
| 000877 | 00E9 | E380 0000 | X | 15270 | LNJ |
| 000878 | 00EB | 9FC7 0025 | | 15280 | STB |
| 000879 | 00ED | 9F47 0026 | | 15290 | STR |
| 000880 | 00EF | 9FC7 0029 | | 15300 | STB |
| 000881 | 00F1 | 9F47 002A | | 15310 | STR |
| 000882 | | | 15320 * | | |
| 000883 | 00F3 | ABC7 0002 | | 15330 | LAB |
| 000884 | 00F5 | 8702 | | 15340 | CL |
| 000885 | 00F6 | AFC2 0001 | | 15350 | STB |
| 000886 | 00F8 | AFC2 0002 | | 15360 | STB |
| 000887 | 00FA | ABC7 0005 | | 15370 | LAB |
| 000888 | 00FC | 8702 | | 15380 | CL |
| 000889 | 00FD | AFC2 0001 | | 15390 | STB |
| 000890 | 00FF | AFC2 0002 | | 15400 | STB |
| 000891 | 0101 | ABC7 003C | | 15410 | LAB |
| 000892 | 0103 | 8702 | | 15420 | CL |
| 000893 | 0104 | AFC2 0001 | | 15430 | STB |
| 000894 | 0106 | AFC2 0002 | | 15440 | STB |
| 000895 | | | 15450 * | | |
| 000896 | 0108 | E804 | | 15460 | LDR |
| 000897 | 0109 | FCD4 | | 15470 | LDB |
| 000898 | 010A | D380 0000 | X | 15480 | LNJ |
| 000899 | 010C | 0112 | | 15490 | DC |
| 000900 | 010D | 0012 | | 15500 | DC |
| 000901 | 010E | 0000 | | 15510 | DC |
| 000902 | 010F | CCD7 | | 15520 | LDB |
| 000903 | | | 15530 * | | |
| 000904 | 0110 | 8380 0000 | X | 15540 | JMP |
| 000905 | | | 15550 * | | |
| 000906 | 0112 | 4E45 | | 15560 NTCNMG | DC |
| 0113 | 5457 | | | | 'NETWORK CONNECTED' |
| 0114 | 4F52 | | | | |
| 0115 | 4B20 | | | | |
| 0116 | 434F | | | | |
| 0117 | 4E4E | | | | |
| 0118 | 4543 | | | | |
| 0119 | 5445 | | | | |
| 011A | 4420 | | | | |
| 000907 | | 0009 | | 15570 NTCNML | EQU |
| 000908 | | | | 15580 * | \$-NTCNMG |
| 000909 | 011B | 5832 | | 15590 NTLUMG | DC |
| | | | | | 'X25 LINK UP' |

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011C 3520
011D 4C49
011E 4E4B
011F 2055
0120 5020

000910 0006

15600 NTLUML EQU \$-NTLUMG

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| | | | | | |
|--------|------|-----------|---|------------------|--|
| 000911 | | 15610 | /EJECT | | |
| 000912 | | 15620 | * | | |
| 000913 | | 15630 | *CHECK IF WE HAVE ENOUGH MEMORY TO ACCEPT INPUT | | |
| 000914 | | 15640 | * | | |
| 000915 | 0121 | E844 0010 | 15650 XNTINC | LDR R6,B4+IBFMAX | BASE DECISION OF MAX BUFFERS |
| 000916 | 0123 | 6003 | 15660 | SOL R6,3 | |
| 000917 | 0124 | E900 0000 | X 15670 | CMR R6,M\$CURB | CHECK AGAINST CURRENT MEMORY LEVEL |
| 000918 | 0126 | 0300 0000 | X 15680 | BG TSKRTN | NORMAL RETURN INDICATES INABILITY |
| 000919 | 0128 | 8380 0000 | X 15690 | JMP TSKRTE | EXCEPTION RETURN USED WHEN WE ARE ABLE |

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| | | | | | | | |
|--------|------|-----------|-------|--------|---|--------------|---|
| 000920 | | | 15700 | /EJECT | | | |
| 000921 | | | 15710 | * | | | |
| 000922 | | | 15720 | * | HANDLE RECEIPT OF PACKET LEVEL MESSAGES | | |
| 000923 | | | 15730 | * | | | |
| 000924 | 012A | FCC4 000F | 15740 | XNTINM | LDB | B7,B4+HOSTNT | FIRST QUEUE TASK TO PROCESS |
| 000925 | 012C | EB80 015A | 15750 | | LAB | B6,XNETIN | |
| 000926 | 012E | 5C30 | 15760 | | LDV | R5,NETLEV | |
| 000927 | 012F | B380 0000 | X | 15770 | LNJ | B3,BLDTSK | QUEUE TASK TO PROCESS INPUT MESSAGES |
| 000928 | | | 15780 | * | | | |
| 000929 | 0131 | 9CC4 0018 | 15790 | .1 | LDB | B1,B4+IMSGFB | COPY MESSAGES FROM DEVICE TO NETWORK |
| 000930 | 0133 | 9844 0019 | 15800 | | LDR | R1,B4+IMSGFP | |
| 000931 | 0135 | 9DC4 001A | 15810 | | CMB | B1,B4+IMSGLB | MIGHT WE BE AT END |
| 000932 | 0137 | 0980 | T | 15820 | BNE | .2 | NO |
| 000933 | 0138 | 9944 0018 | | 15830 | CMR | R1,B4+IMSGLP | |
| 000934 | 013A | 0900 0000 | X | 15840 | BE | TSKRTE | EXCEPTION RETURN USED TO INDICATE AVAILABLE |
| 000935 | | | 15850 | * | | | |
| 000936 | 013C | C811 | 15860 | .2 | LDR | R4,B1+R1 | LOAD ADDRESS, POINTER, LENGTH |
| 000937 | 013D | E380 0000 | X | 15870 | LNJ | B6,GWORDF | |
| 000938 | 013F | D811 | | 15880 | LDR | R5,B1+R1 | |
| 000939 | 0140 | E380 0000 | X | 15890 | LNJ | B6,GWORDF | |
| 000940 | 0142 | E380 0000 | X | 15900 | LNJ | B6,GWORDF | |
| 000941 | 0144 | 9FC4 0018 | | 15910 | STB | B1,B4+IMSGFB | SAVE UPDATED POINTERS |
| 000942 | 0146 | 9F44 0019 | | 15920 | STR | R1,B4+IMSGFP | |
| 000943 | | | 15930 | * | | | |
| 000944 | 0148 | 9CC7 001A | 15940 | | LDB | B1,B7+IMSGLB | COPY ONTO END OF QUEUE |
| 000945 | 014A | 9847 001B | 15950 | | LDR | R1,B7+IMSGLP | |
| 000946 | 014C | CE56 | 15960 | | SWR | R4,R6 | |
| 000947 | 014D | E380 0000 | X | 15970 | LNJ | B6,PWORDG | SAVE ADDRESS, POINTER, LENGTH |
| 000948 | 014F | E855 | | 15980 | LDR | R6,R5 | |
| 000949 | 0150 | E380 0000 | X | 15990 | LNJ | B6,PWORDG | |
| 000950 | 0152 | E854 | | 16000 | LDR | R6,R4 | |
| 000951 | 0153 | E380 0000 | X | 16010 | LNJ | B6,PWORDG | |
| 000952 | 0155 | 9FC7 001A | | 16020 | STB | B1,B7+IMSGLB | SAVE UPDATED POINTERS |
| 000953 | 0157 | 9F47 001B | | 16030 | STR | R1,B7+IMSGLP | |
| 000954 | 0159 | 0FD8 | T | 16040 | B | .1 | LOOP FOR NEXT QUEUED MESSAGE |

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| | | | | | | | | |
|--------|------|-----------|--|--------|--------|------------------|------------------------------|---|
| 000955 | | 16050 | /EJECT | | | | | |
| 000956 | | 16060 | * | | | | | |
| 000957 | | 16070 | *PROCESS X25 STYLE NETWORK PACKET LEVEL MESSAGES | | | | | |
| 000958 | | 16080 | * | | | | | |
| 000959 | | 16090 | *<B4>=NETWORK DEVICE BLOCK | | | | | |
| 000960 | | 16100 | * | | | | | |
| 000961 | 015A | CCD7 | 16110 | XNETIN | LDB | B4,B7 | ADJUST REGISTERS | |
| 000962 | 015B | 82C4 0008 | 16120 | | LB | B4+DEVFGS,SONOFF | WE MUST STILL BE ONLINE | |
| | 015D | 8000 | | | | | | |
| 000963 | 015E | 0580 0000 | X | 16130 | BBF | SMCPXT | IF NOT THEN JUST GO TO SLEEP | |
| 000964 | | | | 16140 | * | | | |
| 000965 | 0160 | 9CC4 0018 | | 16150 | XNETIM | LDB | B1,B4+IMSGFB | SCAN QUEUE FOR ANOTHER MESSAGE |
| 000966 | 0162 | 9844 0019 | | 16160 | | LDR | R1,B4+IMSGFP | |
| 000967 | 0164 | 9DC4 001A | | 16170 | | CMB | B1,B4+IMSGLB | ANY LEFT? |
| 000968 | 0166 | 0980 | T | 16180 | | BNE | .1 | YES |
| 000969 | 0167 | 9944 001B | | 16190 | | CMR | R1,B4+IMSGLP | |
| 000970 | 0169 | 0900 0560 | | 16200 | | BE | XNETOM | ATTEMPT TO FILL OUTPUT REQUEST (IF ANY) |
| 000971 | | | | 16210 | * | | | |
| 000972 | 016B | E380 0000 | X | 16220 | .1 | LNJ | B6,GWORDF | GET ADDRESS OF MESSAGE |
| 000973 | 016D | EF44 003B | | 16230 | | STR | R6,B4+MSGHDR | |
| 000974 | 016F | E380 0000 | X | 16240 | | LNJ | B6,GWORDF | GET POINTER INTO BUFFER |
| 000975 | 0171 | 6D02 | | 16250 | | CMV | R6,2 | MUST BE AT TOP OF BUFFER |
| 000976 | 0172 | 0980 08FC | | 16260 | | BNE | NETERR | ELSE WE WONT WORK |
| 000977 | 0174 | E380 0000 | X | 16270 | | LNJ | B6,GWORDF | GET LENGTH OF MESSAGE |
| 000978 | 0176 | 9FC4 0018 | | 16280 | | STB | B1,B4+IMSGFB | UPDATE TO NEW POINTERS |
| 000979 | 0178 | 9F44 0019 | | 16290 | | STR | R1,B4+IMSGFP | |
| 000980 | | | | 16300 | * | | | |
| 000981 | 017A | 9CC4 003B | | 16310 | | LDB | B1,B4+MSGHDR | WORK WITH MESSAGE BUFFER |
| 000982 | 017C | 9FC4 0034 | | 16320 | | STB | B1,B4+MSGBUF | |
| 000983 | 017E | EF44 0036 | | 16330 | | STR | R6,B4+MSGLEN | SAVE LENGTH |
| 000984 | 0180 | 4CFF | | 16340 | | LDV | R4,-1 | PRESET COMMAND TO TRASH |
| 000985 | 0181 | 6D04 | | 16350 | | CMV | R6,HDRLEN-1 | DOES ADDRESS EXIST |
| 000986 | 0182 | 0200 0219 | | 16360 | | BL | NTIGNM | NOPE |
| 000987 | 0184 | 0900 | T | 16370 | | BE | .11 | YES -- NO COMMAND THOUGH |
| 000988 | 0185 | C2C1 0003 | | 16380 | | LLH | R4,B1+3 | |
| 000989 | | | | 16390 | * | | | |
| 000990 | 0187 | CF44 003A | | 16400 | .11 | STR | R4,B4+COMAND | SAVE COMMAND |
| 000991 | 0189 | D841 0002 | | 16410 | | LDR | R5,B1+2 | |
| 000992 | 018B | DF44 0039 | | 16420 | | STR | R5,B4+ADDRSS | SAVE ADDRESS INVOLVED |
| 000993 | 018D | 82D5 | | 16430 | | LB | R5,'6F80' | MUST BE OFF |
| | 018E | 6F80 | | | | | | |
| 000994 | 018F | 0500 0219 | | 16440 | | BBT | NTIGNM | |
| 000995 | 0191 | 82D5 | | 16450 | | LB | R5,'1000' | MUST BE ON |
| | 0192 | 1000 | | | | | | |
| 000996 | 0193 | 0580 0219 | | 16460 | | BBF | NTIGNM | |
| 000997 | 0195 | 4B00 | T | 16470 | | BEVN | R4,.2 | INSURE NON-DATA IS NOT QUALIFIED |
| 000998 | 0196 | 5800 0219 | | 16480 | | BLZ | R5,NTIGNM | |
| 000999 | | | | 16490 | * | | | |
| 001000 | 0198 | 1C07 | | 16500 | .2 | LDV | R1,HDRLEN+2 | SAVE CURRENT POINTER |
| 001001 | 0199 | 9F44 0035 | | 16510 | | STR | R1,B4+MSGPTR | |

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|--------|------|-----------|-------|------------------------------|-------|-------------------------------|--|-----------------------|
| 001002 | | | 16520 | / EJECT | | | | |
| 001003 | | | 16530 | * | | | | |
| 001004 | | | 16540 | *PRINT TRACE (IF APPLICABLE) | | | | |
| 001005 | | | 16550 | * | | | | |
| 001006 | 019B | E804 | 16560 | LDR | R6,B4 | ARE WE MONITORING THE NETWORK | | |
| 001007 | 019C | E900 0000 | X | 16570 | CMR | R6,MONNET | | |
| 001008 | 019E | 0900 | T | 16580 | BE | .4 | YES -- SEND MESSAGE | |
| 001009 | 019F | 6C7F | | 16590 | LDV | R6,'7F' | | |
| 001010 | 01A0 | E544 0039 | | 16600 | AND | R6,B4+ADDRSS | ARE WE MONITORING CERTAIN NETWORK LINE | |
| 001011 | 01A2 | E404 | | 16610 | OR | R6,B4 | | |
| 001012 | 01A3 | E900 0000 | X | 16620 | CMR | R6,MONNET | | |
| 001013 | 01A5 | 0980 | T | 16630 | BNE | .6 | NOPE -- SKIP MONITORS | |
| 001014 | | | 16640 | * | | | | |
| 001015 | 01A6 | D380 0000 | X | 16650 | .4 | LNJ | B5,MGSTRT | START MONITOR MESSAGE |
| 001016 | | | 16660 | * | | | | |
| 001017 | 01A8 | E804 | | 16670 | LDR | R6,B4 | PRINT NETWORK ADDRESS | |
| 001018 | 01A9 | D380 0000 | X | 16680 | LNJ | B5,MGHEX | | |
| 001019 | 01AB | D380 0000 | X | 16690 | LNJ | B5,MGCHAR | | |
| 001020 | 01AD | 002D | | 16700 | DC | \$ASCDS | | |
| 001021 | | | 16710 | * | | | | |
| 001022 | 01AE | E844 0039 | | 16720 | LDR | R6,B4+ADDRSS | PRINT SUPPLIED ADDRESS | |
| 001023 | 01B0 | D380 0000 | X | 16730 | LNJ | B5,MGHEX | | |
| 001024 | 01B2 | D380 0000 | X | 16740 | LNJ | B5,MGCHAR | SEPARATE DATUM | |
| 001025 | 01B4 | 522F | | 16750 | DC | \$ASCR*Z'0100'+\$ASCFS | | |
| 001026 | | | 16760 | * | | | | |
| 001027 | 01B5 | E844 003A | | 16770 | LDR | R6,B4+COMAND | SPIT COMMAND OUT | |
| 001028 | 01B7 | D380 0000 | X | 16780 | LNJ | B5,MGHEXH | | |
| 001029 | 01B9 | D380 0000 | X | 16790 | LNJ | B5,MGCHAR | | |
| 001030 | 01BB | 0020 | | 16800 | DC | \$ASCSP | | |
| 001031 | | | 16810 | * | | | | |
| 001032 | 01BC | E844 0036 | | 16820 | LDR | R6,B4+MSGLEN | TEST WHETHER DATA EXISTS | |
| 001033 | 01BE | 6EFB | | 16830 | ADV | R6,-HDRLEN | | |
| 001034 | 01BF | 6900 | T | 16840 | BEZ | R6,.5 | NOPE -- SEND MESSAGE | |
| 001035 | 01C0 | D380 0000 | X | 16850 | LNJ | B5,MGHEX | | |
| 001036 | | | 16860 | * | | | | |
| 001037 | 01C2 | D380 0000 | X | 16870 | .5 | LNJ | B5,MGSEND | FORCE MESSAGE |
| 001038 | | | 16880 | * | | | | |
| 001039 | 01C4 | B844 003A | | 16890 | .6 | LDR | R3,B4+COMAND | CHECK COMMAND |
| 001040 | 01C6 | 2C7F | | 16900 | LDV | R2,'7F' | POINT TO ENTRY IN NETWORK MAP | |
| 001041 | 01C7 | A544 0039 | | 16910 | AND | R2,B4+ADDRSS | | |
| 001042 | 01C9 | ACC4 000E | | 16920 | LDB | B2,B4+NETMAP | | |
| 001043 | 01CB | 2980 | T | 16930 | BNEZ | R2,.7 | ONLY CHECK RESTART IF LCI=0 | |
| 001044 | 01CC | B970 00FB | | 16940 | CMR | R3,=\$X25RI | CHECK AGAINST RESTART COMMAND | |
| 001045 | 01CE | 0900 0208 | | 16950 | BE | DCERI | RESTART INDICATION | |
| 001046 | 01DD | B970 00FF | | 16960 | CMR | R3,=\$X25RC | CHECK RESTART RESPONSE | |
| 001047 | 01D2 | 0900 01F7 | | 16970 | BE | DCERC | RESTART CONFIRMATION | |
| 001048 | | | 16980 | * | | | | |
| 001049 | 01D4 | 82C4 0008 | | 16990 | LB | B4+DEVFGS,RSTRTM | IN RESTART MODE? | |
| | 01D6 | 0400 | | | | | | |
| 001050 | 01D7 | 0529 | | 17000 | BBT | \$CMDRLS | YES -- IGNORE MESSAGE | |
| 001051 | 01D8 | 8DA2 | | 17010 | CMN | B2+R2 | ALREADY KILLING ONE? | |
| 001052 | 01D9 | 0980 | T | 17020 | BNE | .61 | YES -- DO IT AGAIN | |

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|--------|----------------|------|--------------|----------|------------------|---|
| 001053 | 01DA D380 07E5 | | 17030 | LNJ | B5,BLDMAP | ELSE START ONE |
| 001054 | | | 17040 * | | | |
| 001055 | 01DC 8380 0244 | | 17050 .61 | JMP | CLRERR | AND KILL IT |
| 001056 | | | 17060 * | | | |
| 001057 | 01DE 82C4 0008 | | 17070 .7 | LB | B4+DEVFGS,RSTRTM | IN RESTART MODE? |
| | 01E0 0400 | | | | | |
| 001058 | 01E1 051F | | 17080 | BBT | \$CMDRLS | YES -- IGNORE MESSAGE |
| 001059 | | | 17090 * | | | |
| 001060 | 01E2 8DA2 | | 17100 | CMN | B2+R2 | ANYTHING DEFINED HERE? |
| 001061 | 01E3 0900 026F | | 17110 | BE | DTERDY | NO -- WERE IN READY MODE |
| 001062 | 01E5 ACA2 | | 17120 | LDB | B2,B2+R2 | MOVE NETMAP BLOCK OVER |
| 001063 | 01E6 AFC4 003F | | 17130 | STB | B2,B4+NETUSR | |
| 001064 | | | 17140 * | | | |
| 001065 | 01E8 A802 | | 17150 | LDR | R2,B2 | BRANCH BASED ON MAJOR STATE |
| 001066 | 01E9 A570 E000 | | 17160 | AND | R2,=X\$MODE | |
| 001067 | 01EB 2013 | | 17170 | SCL | R2,3 | |
| 001068 | 01EC ABA0 01EF | | 17180 | LAB | B2,X25STB+R2 | |
| 001069 | 01EE 838A | | 17190 | JMP | (B2) | CALL PROCESSOR |
| 001070 | | | 17200 * | | | |
| 001071 | 01EF 08FC | | 17210 X25STB | DC | <NETERR | 0 -- READY (TOTALLY OFF) |
| 001072 | 01FO 02D2 | | 17220 | DC | <DTEWTG | 1 -- DTE WAITING (NEED CALL CONFIRMED) |
| 001073 | 01F1 02ED | | 17230 | DC | <DCEWTG | 2 -- DCE WAITING (RESPOND TO CALL RQST) |
| 001074 | 01F2 02F3 | | 17240 | DC | <DTECLR | 3 -- DTE CLEARING |
| 001075 | 01F3 0303 | | 17250 | DC | <DCECLR | 4 -- DCE CLEARING |
| 001076 | 01F4 0309 | | 17260 | DC | <INFTRX | 5 -- INFORMATION TRANSFER (DTE) |
| 001077 | 01F5 0309 | | 17270 | DC | <INFTRX | 6 -- INFORMATION TRANSFER (DCE) |
| 001078 | 01F6 08FC | | 17280 | DC | <NETERR | 7 -- UNDEFINED |

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|--------|------|-----------|---------------|--|--|
| 001079 | | | 17290 | /EJECT | |
| 001080 | | | 17300 | * | |
| 001081 | | | 17310 | *DCE IS CONFIRMING NETWORK RESTART REQUEST | |
| 001082 | | | 17320 | * | |
| 001083 | 01F7 | 82C4 0008 | 17330 | DCERC LB B4+DEVFGS,RSTRTX | DID WE SEND RESTART? |
| | 01F9 | 0100 | | | |
| 001084 | 01FA | 0580 | T 17340 | BBF .2 | NO -- FORCE RE-RESTART |
| 001085 | | | 17350 | * | |
| 001086 | 01FB | 8844 0008 | 17360 .1 | LBF B4+DEVFGS,RSTRTM+RSTRTR+RSTRTX | CLEAR RESTART -- ENTER NORMAL MODE |
| | 01FD | 0700 | | | |
| 001087 | 01FE | B380 022F | 17370 | LNJ B3,RSTRNK | RESET RE-INIT CLOCK |
| 001088 | | | 17380 | * | |
| 001089 | 0200 | CCC4 000F | 17390 .CMDRLS | LDB B4,B4+HOSTNT | RESTORE NETWORK CONTROL BLOCK |
| 001090 | 0202 | 9CC4 003B | 17400 | LDB B1,B4+MSGHDR | RELEASE MESSAGE AND CONTINUE |
| 001091 | 0204 | E380 0000 | X 17410 | LNJ B6,FRBLKS | |
| 001092 | 0206 | 8380 0160 | 17420 | JMP XNETIM | PARSE NEXT MESSAGE |
| 001093 | | | 17430 | * | |
| 001094 | | | 17440 | * | |
| 001095 | | | 17450 | *DCE WANTS TO HAVE NETWORK START FRESH | |
| 001096 | | | 17460 | * | |
| 001097 | 0208 | 8944 0008 | 17470 .DCERI | LBT B4+DEVFGS,RSTRTR | NOTE THAT RESTART RECEIVED |
| | 020A | 0200 | | | |
| 001098 | 020B | 0575 | 17480 | BBT \$CMDRLS | ALREADY DOING ONE |
| 001099 | 020C | 82C4 0008 | 17490 | LB B4+DEVFGS,RSTRTX | HAVE WE TRANSMITTED RESTART? |
| | 020E | 0100 | | | |
| 001100 | 020F | 056C | T 17500 | BBT .1 | YES -- TREAT COLLISION AS CONFIRMATION |
| 001101 | | | 17510 | * | |
| 001102 | | | 17520 | * | |
| 001103 | | | 17530 | *CONDITIONS HAVE CAUSED US TO ENTER RESTART OF NETWORK | |
| 001104 | | | 17540 | * | |
| 001105 | 0210 | 8944 0008 | 17550 .2 | LBT B4+DEVFGS,RSTRTM | FLAG THAT RESTART MUST BE SENT |
| | 0212 | 0400 | | | |
| 001106 | 0213 | F380 04DF | 17560 | LNJ B7,PNTERM | PRINT NETWORK ERROR MESSAGE |
| 001107 | 0215 | 4E52 | 17570 | DC 'NR' | CODE TO DISTINQUISH |
| 001108 | 0216 | B380 005A | 17580 | LNJ B3,CLRNET | CLEAR ALL USERS FROM NETWORK |
| 001109 | 0218 | 0FE8 | 17590 | B \$CMDRLS | RELEASE COMMAND AND CONTINUE |
| 001110 | | | 17600 | * | |
| 001111 | | | 17610 | * | |
| 001112 | | | 17620 | *MESSAGE RECEIVED HAD FLAWED LENGTH OR GFI/LCI | |
| 001113 | | | 17630 | * | |
| 001114 | 0219 | F380 04DF | 17640 NTIGNM | LNJ B7,PNTERM | PRINT NETWORK ERROR MESSAGE |
| 001115 | 021B | 4947 | 17650 | DC 'IG' | CODE TO DISTINQUISH |
| 001116 | 021C | 0FE4 | 17660 | B \$CMDRLS | RELEASE COMMAND AND CONTINUE |

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|--------|------|-----------|-------|---|---|
| 001117 | | | 17670 | /EJECT | |
| 001118 | | | 17680 | * | |
| 001119 | | | 17690 | *CLOCK TO RESEND RESTART REQUEST HAS POPPED | |
| 001120 | | | 17700 | * | |
| 001121 | 021D | CCD7 | 17710 | REINIT LDB B4, ⁼ B7 | ADJUST REGISTERS |
| 001122 | 021E | 8744 000C | 17720 | CL B4+RNTCLK | RESET CLOCK CELL |
| 001123 | 0220 | 82C4 0008 | 17730 | LB B4+DEVFGS,SONOFF | HAS NETWORK BEEN RESET? |
| 0222 | 8000 | | | | |
| 001124 | 0223 | 0580 0000 | X | 17740 BBF | YES -- IGNORE WAKEUP CALL |
| 001125 | 0225 | 8844 0008 | | 17750 LBF | RESEND RESTART REQUEST |
| 0227 | 0100 | | | | |
| 001126 | 0228 | 82C4 0008 | | 17760 LB B4+DEVFGS,RSTRTM | MUST BE IN RESTART MODE |
| 022A | 0400 | | | | |
| 001127 | 022B | 0580 08FC | | 17770 BBF | ELSE WEVE GOT MAJOR PROBLEMS |
| 001128 | 022D | 8380 0560 | | 17780 JMP XNETOM | ATTEMPT TO FILL OUTPUT REQUEST (IF ANY) |
| 001129 | | | 17790 | * | |
| 001130 | | | 17800 | * | |
| 001131 | | | 17810 | *RESET RE-INIT CLOCK | |
| 001132 | | | 17820 | * | |
| 001133 | 022F | 9C80 08FB | 17830 | RSTRNK LDB B1,ZERO | KILL REINIT CLOCK |
| 001134 | 0231 | 9EC4 000C | 17840 | SWB B1,B4+RNTCLK | |
| 001135 | 0233 | EB30 021D | 17850 | LAB B6,REINIT | |
| 001136 | 0235 | FCD4 | 17860 | LDB B7, ⁼ B4 | |
| 001137 | 0236 | 8380 0000 | X | 17870 JMP KILCLK | KILL CLOCK IF IT IS RUNNING |

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|--------|------|-----------|-------|---|--|--|--|
| 001138 | | | 17880 | /EJECT | | | |
| 001139 | | | 17890 | * | | | |
| 001140 | | | 17900 | * FORCE VIRTUAL INTO CLEARING CONDITION | | | |
| 001141 | | | 17910 | * | | | |
| 001142 | 0238 | 874C 003F | 17920 | CLR DCE CL (B4+NETUSR) | RESET USER STATE | | |
| 001143 | 023A | 894C 003F | 17930 | LBT (B4+NETUSR), X\$CCLR+RSPPOND | SET DCE CLEARING MODE | | |
| | 023C | 9000 | | | | | |
| 001144 | 023D | 0F80 | T | 17940 B .1 | JOIN USER CLEARING CODE | | |
| 001145 | | | | 17950 * | | | |
| 001146 | 023E | D380 07AA | | 17960 .WTGCLK LNJ B5,PTOCLK | POP TIMEOUT CLOCK | | |
| 001147 | 0240 | 8944 0008 | | 17970 LBT B4+DEVFGS,CLKPRC | PROCESSING FOR CLOCKS (NOT INPUT) | | |
| | 0242 | 0010 | | | | | |
| 001148 | 0243 | 0F84 | | 17980 B \$CLRDT | JOIN COMMON CLEAR ROUTINE | | |
| 001149 | | | | 17990 * | | | |
| 001150 | 0244 | F380 04DF | | 18000 .CLRERR LNJ B7,PNTERM | PRINT NETWORK ERROR MESSAGE | | |
| 001151 | 0246 | 4C43 | | 18010 DC 'LC' | CODE TO DISTINQUISH | | |
| 001152 | | | | 18020 * | | | |
| 001153 | 0247 | 874C 003F | | 18030 .CLRDT LCL (B4+NETUSR) | RESET USER STATE | | |
| 001154 | 0249 | 894C 003F | | 18040 LBT (B4+NETUSR), X\$TCLR+RSPPOND | SET DTE CLEARING MODE | | |
| | 024B | 7000 | | | | | |
| 001155 | | | | 18050 * | | | |
| 001156 | 024C | B380 0797 | | 18060 .1 LNJ B3,KTOCLK | RESET TIMEOUT CLOCK | | |
| 001157 | 024E | B380 079C | | 18070 LNJ B3,KRRCLK | RESET RECEIVE RESPONSE CLOCK | | |
| 001158 | 0250 | ACC4 003F | | 18080 LDB B2,B4+NETUSR | RESET NETWORK FLAGS | | |
| 001159 | 0252 | 8742 0001 | | 18090 CL B2+NETFGS | | | |
| 001160 | 0254 | D380 07BC | | 18100 LNJ B5,CLRUSR | FREE INFORMATION FOR USER | | |
| 001161 | | | | 18110 * | | | |
| 001162 | 0256 | D380 0000 | X | 18120 LNJ B5,NETCHK | FIND USER IF CONNECTED | | |
| 001163 | 0258 | 0268 | | 18130 DC <CLRXIT | NOT FOUND -- RELEASE COMMAND | | |
| 001164 | 0259 | 0060 | | 18140 DQA | PULL CURRENT USER OFF NETWORK USER QUEUE | | |
| 001165 | 025A | 0680 08FC | | 18150 BCF NETERR | HANDLE FUNNY MACHINE | | |
| 001166 | 025C | 0980 08FC | | 18160 BNE NETERR | BUT YOU SAID! | | |
| 001167 | | | | 18170 * | | | |
| 001168 | 025E | CCD1 | | 18180 LDB B4,=B1 | WORK WITH NETWORK USER DEVICE BLOCK | | |
| 001169 | 025F | D380 0000 | X | 18190 LNJ B5,DQRDSC | GIVE OFFLINE RETURN TO ALL PARTIES | | |
| 001170 | 0261 | D380 0000 | X | 18200 LNJ B5,DEVKOT | KILL ANY AND ALL QUEUED OUTPUT | | |
| 001171 | 0263 | D380 0000 | X | 18210 LNJ B5,DVKINP | KILL ANY REMAINING INPUT | | |
| 001172 | | | | 18220 * | | | |
| 001173 | 0265 | 9CD4 | | 18230 LDB B1,=B4 | RELEASE BLOCK IF APPROPRIATE | | |
| 001174 | 0266 | B380 0000 | X | 18240 LNJ B3,FNETBK | FREE NETWORK USER BLOCK | | |
| 001175 | | | | 18250 * | | | |
| 001176 | 0268 | 8844 0008 | | 18260 CLRXIT LBF B4+DEVFGS,CLKPRC | DID A CLOCK DO THIS TO US | | |
| | 026A | 0010 | | | | | |
| 001177 | 026B | 0580 0200 | | 18270 BBF CMDRLS | NOPE -- A COMMAND | | |
| 001178 | 026D | 8380 0560 | | 18280 JMP XNETOM | ATTEMPT TO FILL OUTPUT REQUEST (IF ANY) | | |

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|--------|------|-----------|---------|--------------------------------------|---|
| 001179 | | | 18290 | /EJECT | |
| 001180 | | | 18300 | * | |
| 001181 | | | 18310 | *PACKET RECEIVED WHILE TOTALLY IDLED | |
| 001182 | | | 18320 | * | |
| 001183 | 026F | D380 07E5 | 18330 | DTERDY LNJ B5,BLDMAP | BUILD MAP BLOCK |
| 001184 | 0271 | B970 0013 | 18340 | CMR R3,\$X250I | DISCONNECT? |
| 001185 | 0273 | 0900 0238 | 18350 | BE CLRDCE | YES -- DO IT |
| 001186 | 0275 | B970 000B | 18360 | CMR R3,\$X25CI | INCOMING CALL? |
| 001187 | 0277 | 0980 0244 | 18370 | BNE CLRERR | NOPE -- ENTER DTE CLEARING STATE |
| 001188 | | | 18380 | * | |
| 001189 | 0279 | F844 0036 | 18390 | LDR R7,B4+MSGLEN | INSURE LENGTH IS VALID |
| 001190 | 027B | 7EFB | 18400 | ADV R7,-HDRLEN | |
| 001191 | 027C | 7D06 | 18410 | CMV R7,CRQMG | INSURE MINIMUM LENGTH |
| 001192 | 027D | 0200 0244 | 18420 | BL CLRERR | NOT GOOD ENOUGH |
| 001193 | | | 18430 | * | |
| 001194 | 027F | 9C80 08FB | 18440 | LDB B1,ZERO | SAVE CONNECT ASIDE (DONT RELEASE) |
| 001195 | 0281 | 9EC4 003B | 18450 | SWB B1,B4+MSGHDR | |
| 001196 | 0283 | 9844 0035 | 18460 | LDR R1,B4+MSGPTR | |
| 001197 | 0285 | ARC4 003C | 18470 | LAB B2,B4+CONQ | PLACE MESSAGE ONTO CONNECT QUEUE |
| 001198 | 0287 | D380 0803 | 18480 | LNJ B5,ADMSGQ | |
| 001199 | | | 18490 | * | |
| 001200 | 0289 | 1C07 | 18500 | LDV R1,2+HDRLEN | POINT TO CONFIGURATION |
| 001201 | 028A | E291 | 18510 | LLH R6,B1+R1 | |
| 001202 | 028B | 6900 | T 18520 | BEZ R6,.4 | NO CONFIGURATION |
| 001203 | 028C | 70C4 | 18530 | DOR R7,.4 | SEPERATE CALLING/CALLED LENGTHS |
| 001204 | 028D | 704C | 18540 | SOR R7,16-4 | |
| 001205 | 028E | 6DOC | 18550 | CMV R6,12 | MUST BE 12 OR 14 DIGITS |
| 001206 | 028F | 0900 | T 18560 | BE .1 | |
| 001207 | 0290 | 6D0E | 18570 | CMV R6,14 | |
| 001208 | 0291 | 0980 0244 | 18580 | BNE CLRERR | |
| 001209 | | | 18590 | * | |
| 001210 | 0293 | 7DOC | T 18600 | .1 CMV R7,12 | MUST BE 12 OR 14 DIGITS |
| 001211 | 0294 | 0900 | T 18610 | BE .2 | |
| 001212 | 0295 | 7D0E | 18620 | CMV R7,14 | |
| 001213 | 0296 | 0980 0244 | 18630 | BNE CLRERR | |
| 001214 | | | 18640 | * | |
| 001215 | 0298 | D856 | 18650 | .2 LDR R5,R6 | COMPUTE LENGTH WITH MESSAGES |
| 001216 | 0299 | DA57 | 18660 | ADD R5,R7 | |
| 001217 | 029A | 5041 | 18670 | SOR R5,1 | |
| 001218 | 029B | 5E0B | 18680 | ADV R5,HDRLEN+CRQMG | ADD HEADER AND REQUIRED FRAMING |
| 001219 | 029C | D944 0036 | 18690 | CMR R5,B4+MSGLEN | INSURE THERES PLENTY OF MESSAGE THERE |
| 001220 | 029E | 0300 0244 | 18700 | BG CLRERR | NOT ENOUGH ROOM |
| 001221 | | | 18710 | * | |
| 001222 | 02A0 | 7041 | 18720 | SOR R7,1 | DETERMINE BYTE WHERE CALLING AREA CODE RESIDES |
| 001223 | 02A1 | 7E08 | 18730 | ADV R7,HDRLEN+1+2 | SKIP HEADER..LENGTH..CALLED..DNIC OF CALLING |
| 001224 | 02A2 | 9857 | 18740 | LDR R1,R7 | |
| 001225 | 02A3 | E380 0000 | X 18750 | LNJ B6,SETBPT | SET POINTER TO PROPER BYTE |
| 001226 | 02A5 | E380 0000 | X 18760 | LNJ B6,GBYTEB | LOAD THEN SKIP |
| 001227 | 02A7 | F856 | 18770 | LDR R7,R6 | |
| 001228 | 02A8 | E380 0000 | X 18780 | LNJ B6,GBYTEB | |
| 001229 | 02AA | 6044 | 18790 | SOR R6,4 | SHIFT LAST BCDIGIT OF AREA CODE |
| 001230 | 02AB | 7B00 | T 18800 | BEVN R7,.3 | COPY EVEN/ODD BIT OF MIDDLE BCDIGIT OF AREA COD |

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|--------|------|-----------|---|----------|-----|-----------------------------|-----------------------------------|
| 001231 | 02AC | 8956 | | 18810 | LBT | R6,'0010' | |
| | 02AD | 0010 | | | | | |
| 001232 | | | | 18820 * | | | |
| 001233 | 02AE | 7EE0 | | 18830 .3 | ADV | R7,(-2*16) | ADJUST FIRST BCDIGIT OF AREA CODE |
| 001234 | 02AF | F570 0070 | | 18840 | AND | R7,'0070' | |
| 001235 | 02B1 | 7001 | | 18850 | SOL | R7,1 | |
| 001236 | 02B2 | E457 | | 18860 | OR | R6,R7 | |
| 001237 | | | | 18870 * | | | |
| 001238 | 02B3 | BCC4 003F | | 18880 .4 | LDB | B3,B4+NETUSR | SAVE RESULT IN MAP BLOCK |
| 001239 | 02B5 | EF43 0006 | | 18890 | STR | R6,B3+NTINFO | SAVE AREA CODE RESULT |
| 001240 | | | X | 18900 * | | | |
| 001241 | 02B7 | D380 0000 | | 18910 | LNJ | B5,NETCON | GENERATE NETWORK DEVICE BLOCK |
| 001242 | 02B9 | 8380 0247 | | 18920 | JMP | CLRDTE | IF NO MEMORY THEN REJECT |
| 001243 | | | | 18930 * | | | |
| 001244 | 02BH | CCC4 000F | | 18940 | LDB | B4,B4+HOSTNT | RESTORE NETWORK BLOCK |
| 001245 | 02BD | D870 8000 | | 18950 | LDR | R5,'8000' | STACK REQUEST FOR SPEED MESSAGE |
| 001246 | 02BF | D380 0815 | | 18960 | LNJ | B5,BLDMSG | |
| 001247 | 02C1 | 6C04 | | 18970 | LDV | R6,Q\$RDPM | READ PARAMETER |
| 001248 | 02C2 | E7DD | | 18980 | STH | R6,POP B1+R1 | |
| 001249 | 02C3 | E870 000B | | 18990 | LDR | R6,=PM\$RSP | WE WANT SPEED |
| 001250 | 02C5 | E7DD | | 19000 | STH | R6,POP B1+R1 | |
| 001251 | 02C6 | 6048 | | 19010 | SOR | R6,8 | |
| 001252 | 02C7 | E7DD | | 19020 | STH | R6,POP B1+R1 | |
| 001253 | | | | 19030 * | | | |
| 001254 | 02C8 | 7E03 | | 19040 | ADV | R7,3 | INCREASE LENGTH |
| 001255 | 02C9 | ABC4 0005 | | 19050 | LAB | B2,B4+OUTQ | |
| 001256 | 02CB | D380 0803 | | 19060 | LNJ | B5,ADMSGQ | ADD THIS MESSAGE TO OUTPUT QUEUE |
| 001257 | | | | 19070 * | | | |
| 001258 | 02CD | 894C 003F | | 19080 | LBT | (B4+NETUSR),X\$CWTG+RSPPOND | SEND CALL ACCEPTED |
| | 02CF | 5000 | | | | | |
| 001259 | 02D0 | 8380 0160 | | 19090 | JMP | XNETIM | PARSE NEXT MESSAGE |

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|--------|------|-----------|---------|---|----------------------------------|
| 001260 | | | 19100 | /EJECT | |
| 001261 | | | 19110 | * | |
| 001262 | | | 19120 | *PACKET RECEIVED WHILE RESTING IN WAITING STATE | |
| 001263 | | | 19130 | * | |
| 001264 | 02D2 | B970 000F | 19140 | DTEWTG CMR R3,=\$X25CC | CALL CONFIRMATION? |
| 001265 | 02D4 | 0900 | T 19150 | BE .1 | YES -- WRAP WAITING STATE UP |
| 001266 | 02D5 | B970 000B | 19160 | CMR R3,=\$X25CI | CALL COLLISION? |
| 001267 | 02D7 | 0996 | 19170 | BNE \$DCEWTG | NOPE -- FORCE OFF |
| 001268 | 02D8 | 874C 003F | 19180 | CL (B4+NETUSR) | ENTER DCE WAITING STATE |
| 001269 | 02DA | 894C 003F | 19190 | LBT (B4+NETUSR),X\$CCLR | WITHOUT SENDING RESPONSE |
| | 02DC | 8000 | | | |
| 001270 | 02DD | 0F80 | T 19200 | B .2 | |
| 001271 | | | 19210 | * | |
| 001272 | 02DE | B380 0797 | 19220 | .1 LNJ B3,KTOCLK | WE CONNECTED WITHIN TIME LIMIT |
| 001273 | 02E0 | 874C 003F | 19230 | CL (B4+NETUSR) | ENTER INFORMATION TRANSFER STATE |
| 001274 | 02E2 | 894C 003F | 19240 | LBT (B4+NETUSR),X\$1CTX+OUROWN | |
| | 02E4 | C800 | | | |
| 001275 | 02E5 | D380 0000 | X 19250 | LNJ B5,NETCHK | INDICATE CONNECTION WITH BREAK |
| 001276 | 02E7 | 08FC | 19260 | DC <NETERR | MUST BE PRESENT |
| 001277 | 02E8 | CCD1 | 19270 | LDB B4,=B1 | |
| 001278 | 02E9 | D380 0000 | X 19280 | LNJ B5,DQRBRK | GIVE BREAK TO ALL PARTIES |
| 001279 | | | 19290 | * | |
| 001280 | 02EB | 8380 0200 | 19300 | .2 JMP CMDRLS | IGNORE COMMAND |
| 001281 | | | 19310 | * | |
| 001282 | | | 19320 | * | |
| 001283 | | | 19330 | *PACKET RECEIVED BEFORE WE RESPONDED WITH CALL ACCEPTED | |
| 001284 | | | 19340 | * | |
| 001285 | 02ED | B970 0013 | 19350 | DCEWTG CMR R3,=\$X2501 | FORGET NEW CALL |
| 001286 | 02EF | 0900 0238 | 19360 | BE CLR DCE | ENTER DCE CLEARING |
| 001287 | 02F1 | 8380 0244 | 19370 | JMP CLRERR | ENTER DTE CLEARING STATE |

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|--------|------|-----------|--|--|-------------------------------------|
| 001288 | | 19380 | /EJECT | | |
| 001289 | | 19390 | * | | |
| 001290 | | 19400 | *DTE ISSUED CLEAR (CONFIRM OR COLLISION ALLOWED) | | |
| 001291 | | 19410 | * | | |
| 001292 | 02F3 | B970 0017 | 19420 | DTECLR CMR R3,=\$X250C | CLEAR CONFIRMATION? |
| 001293 | 02F5 | 0900 | T 19430 | BE .1 | YES -- CLEAR CONNECTION |
| 001294 | 02F6 | B970 0013 | 19440 | CMR R3,=\$X250I | CLEAR COLLISION? |
| 001295 | 02F8 | 0980 | T 19450 | BNE .2 | NOPE -- IGNORE |
| 001296 | 02F9 | 82CC 003F | 19460 | LB (B4+NETUSR),RSOND | DID WE EVER GET CLEAR SENT? |
| | 02FB | 1000 | | | |
| 001297 | 02FC | 0500 | T 19470 | BBT .3 | NO -- ENTER DCE CLEARING STATE |
| 001298 | | | 19480 | * | |
| 001299 | 02FD | B380 0797 | 19490 | .1 LNJ B3,KTOCLK | KILL TIMEOUT CLOCK |
| 001300 | 02FF | B380 07F9 | 19500 | LNJ B3,RLSMAP | FORCE INTO READY STATE |
| 001301 | | | 19510 | * | |
| 001302 | 0301 | 8380 0200 | 19520 | .2 JMP CMDRLS | ELSE IGNORE WHATEVER COMMAND IT WAS |
| 001303 | | | 19530 | * | |
| 001304 | | | 19540 | * | |
| 001305 | | | 19550 | *DCE ISSUED CLEAR (RETRY ALLOWED IF SLOW TO RESPOND) | |
| 001306 | | | 19560 | * | |
| 001307 | 0303 | B970 0013 | 19570 | .DCECLR CMR R3,=\$X250I | TRY OF DISCONNECT? |
| 001308 | 0305 | 0980 0244 | 19580 | BNE CLRERR | NOPE -- START OUR OWN DISCONNECT |
| 001309 | | | 19590 | * | |
| 001310 | 0307 | 8380 0238 | 19600 | .3 JMP CLRDCE | ENTER DCE CLEARING STATE |

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|--------|------|-----------|---------|--|---|
| 001311 | | | 19610 | /EJECT | |
| 001312 | | | 19620 | * | |
| 001313 | | | 19630 | *PACKET RECEIVED DURING INFORMATION TRANSFER STATE | |
| 001314 | | | 19640 | * | |
| 001315 | 0309 | 3800 037B | 19650 | INFTRX BEVN R3,IXDATA | IF DATA THEN ACT LIKE DTE WOULD |
| 001316 | 030B | DB80 031F | 19660 | LAB B5,UCMDTB | ASSUME UN-NUMBERED |
| 001317 | 030D | 6C0A | 19670 | LDV R6,UCMTBL | |
| 001318 | 030E | 82D3 | 19680 | LB R3,'0002' | SUPERVISORY COMMAND? |
| | 030F | 0002 | | | |
| 001319 | 0310 | 0500 | T 19690 | BBT .1 | NO |
| 001320 | 0311 | DB80 031C | 19700 | LAB B5,SCMDTB | CHANGE TO SUPERVISORY TABLE |
| 001321 | 0313 | 6C03 | 19710 | LDV R6,SCMTBL | |
| 001322 | 0314 | 8853 | 19720 | LBF R3,'00E0' | RESET PACKET COUNT |
| | 0315 | 00E0 | | | |
| 001323 | | | 19730 | * | |
| 001324 | 0316 | 3042 | 19740 | .1 SOR R3,2 | BRANCH ON -S- AND -U- COMMANDS |
| 001325 | 0317 | B956 | 19750 | CMR R3,R6 | |
| 001326 | 0318 | 0280 0244 | 19760 | BGE CLRERR | NOT VALID -- RESTART |
| 001327 | 031A | DBB5 | 19770 | LAB B5,B5+R3 | INVOKE COMMAND PROCESSOR |
| 001328 | 031B | 838D | 19780 | JMP (B5) | |
| 001329 | | | 19790 | * | |
| 001330 | | | 19800 | * | |
| 001331 | | | 19810 | *SUPERVISORY COMMANDS (FLOW CONTROL) | |
| 001332 | | | 19820 | * | |
| 001333 | 031C | 036E | 19830 | SCMDTB DC <ITXRR | RECEIVE READY |
| 001334 | 031D | 0374 | 19840 | DC <ITXRNR | RECEIVE NOT READY |
| 001335 | 031E | 0244 | 19850 | DC <CLRERR | REJECT (NOT SUPPORTED) ENTER DTE CLEARING |
| 001336 | | | 19860 | * | |
| 001337 | | 0003 | 19870 | SCMTBL EQU \$-SCMDTB | LENGTH OF TABLE |
| 001338 | | | 19880 | * | |
| 001339 | | | 19890 | * | |
| 001340 | | | 19900 | *UN-NUMBERED COMMANDS (VIRTUAL CONNECTION CONTROL) | |
| 001341 | | | 19910 | * | |
| 001342 | 031F | 0244 | 19920 | UCMDTB DC <CLRERR | ..UNDEFINED |
| 001343 | 0320 | 0244 | 19930 | DC <CLRERR | ..UNDEFINED |
| 001344 | 0321 | 0244 | 19940 | DC <CLRERR | CALL INDICATION (INVALID) |
| 001345 | 0322 | 0244 | 19950 | DC <CLRERR | CALL CONFIRMED (INVALID) |
| 001346 | 0323 | 0238 | 19960 | DC <CLRDCE | CLEAR INDICATION (ENTER DCE CLEARING) |
| 001347 | 0324 | 0244 | 19970 | DC <CLRERR | CLEAR CONFIRMATION (INVALID) |
| 001348 | 0325 | 0244 | 19980 | DC <CLRERR | RESET INDICATION (NOT SUPPORTED) |
| 001349 | 0326 | 0244 | 19990 | DC <CLRERR | RESET CONFIRMATION (NOT SUPPORTED) |
| 001350 | 0327 | 04A1 | 20000 | DC <ITXII | INTERRUPT INDICATION |
| 001351 | 0328 | 04D0 | 20010 | DC <ITXIC | INTERRUPT CONFIRMATION |
| 001352 | | | 20020 | * | |
| 001353 | | 000A | 20030 | UCMTBL EQU \$-UCMDTB | LENGTH OF TABLE |

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|-------------|-----------|-------|---------------------------------------|--|
| 001354 | | 20040 | /EJECT | |
| 001355 | | 20050 | * | |
| 001356 | | 20060 | *CHECK RECEIVED PACKET SEQUENCE COUNT | |
| 001357 | | 20070 | * | |
| 001358 0329 | D844 003A | 20080 | CKRPS LDR R5,B4+COMMAND | RETRIEVE PACKET CONFIRM COUNT FROM COMMAND |
| 001359 032B | 5045 | 20090 | SOR R5,5 | |
| 001360 032C | E84C 003F | 20100 | LDR R6,(B4+NETUSR) | GET USERS FLOW CONTROL BITS |
| 001361 032E | C856 | 20110 | LDR R4,R6 | SAVE ASIDE |
| 001362 032F | 8757 | 20120 | CL R7 | |
| 001363 | | 20130 | * | |
| 001364 0330 | E570 001F | 20140 | .1 AND R6,'001F' | ISOLATE TO CURRENT AND HELD COUNTS |
| 001365 0332 | 70C2 | 20150 | DOR R7,2 | |
| 001366 0333 | E955 | 20160 | CMR R6,R5 | COMPARE WITH CURRENT BUFFER |
| 001367 0334 | 0900 | 20170 | BE .2 | VERY GOOD |
| 001368 0335 | 7900 0244 | 20180 | BEZ R7,CLRERR | CLEAR CONNECTION IF ERRORS |
| 001369 0337 | 7082 | 20190 | DOL R7,2 | |
| 001370 0338 | 6E03 | 20200 | ADV R6,3 | DECREASE HELD..INCREASE CURRENT |
| 001371 0339 | B380 0797 | 20210 | LNJ B3,KTOCLK | KILL TIMEOUT CLOCK (WINDOW ROTATED) |
| 001372 033B | OFF5 | 20220 | B .1 | |
| 001373 | | 20230 | * | |
| 001374 033C | 7082 | 20240 | .2 DOL R7,2 | PUT COUNT BACK INTO FLOW CONTROL BITS |
| 001375 033D | E654 | 20250 | XOR R6,R4 | |
| 001376 033E | E570 001F | 20260 | AND R6,'001F' | |
| 001377 0340 | E654 | 20270 | XOR R6,R4 | |
| 001378 0341 | EF4C 003F | 20280 | STR R6,(B4+NETUSR) | |
| 001379 | | 20290 | * | |
| 001380 0343 | 82D6 | 20300 | LB R6,DTEPSC | ANY LEFT UNACCOUNTED FOR? |
| 0344 | 0003 | | | |
| 001381 0345 | 0580 | 20310 | BBF .3 | NO |
| 001382 0346 | E654 | 20320 | XOR R6,R4 | WE LEFT CLOCK ALONE IF COUNTS SIMILAR |
| 001383 0347 | 82D6 | 20330 | LB R6,DTEPSC | |
| 0348 | 0003 | | | |
| 001384 0349 | 05FC | 20340 | BBF .3 | |
| 001385 034A | D870 5460 | 20350 | LDR R5,=ONESEC*180 | WAIT A TOTAL OF THREE MINUTES |
| 001386 034C | EB80 023E | 20360 | LAB B6,WTGCLK | IF WINDOW DOESNT MOVE THEN CLEAR |
| 001387 034E | 8380 0786 | 20370 | JMP STOCLK | SET TIMEOUT CLOCK |
| 001388 | | 20380 | * | |
| 001389 0350 | 8385 | 20390 | .3 JMP B5 | RETURN WITHOUT SETTING CLOCK |

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|--------|------|-----------|------------------------------------|-------------------|--|
| 001390 | | 20400 | /EJECT | | |
| 001391 | | 20410 | * | | |
| 001392 | | 20420 | *CHECK SENT PACKET SEQUENCE NUMBER | | |
| 001393 | | 20430 | * | | |
| 001394 | 0351 | ACC4 003F | 20440 CKSPS | LDB B2,B4+NETUSR | CHECK PACKET COUNT |
| 001395 | 0353 | E842 0001 | 20450 | LDR R6,B2+NETFGS | |
| 001396 | 0355 | 82D6 | 20460 | LB R6,DCEPSF | IF TOO MANY DCE MESSAGES THEN CLEAR |
| | 0356 | 0007 | | | |
| 001397 | 0357 | 0580 0244 | 20470 | BBF CLRERR | ELSE ENTER DTE CLEARING |
| 001398 | 0359 | 6EFF | 20480 | ADV R6,-DCEPSI | ONE LESS PACKET WE CAN ACCEPT |
| 001399 | 035A | EF42 0001 | 20490 | STR R6,B2+NETFGS | |
| 001400 | | | 20500 | * | |
| 001401 | 035C | 70C3 | 20510 | DOR R7,3 | MOVE OLD COUNT AND NUMBER DOWN |
| 001402 | 035D | 704D | 20520 | SOR R7,16-3 | |
| 001403 | 035E | 8AD7 | 20530 | INC R7 | ADJUST SINCE THIS PACKET ALREADY COUNTED |
| 001404 | 035F | E257 | 20540 | SUB R6,R7 | COMPUTE PACKETS IN PROGRESS |
| 001405 | 0360 | 70C3 | 20550 | DOR R7,3 | MOVE SEQUENCE OFFSET DOWN |
| 001406 | 0361 | 704D | 20560 | SOR R7,16-3 | |
| 001407 | | | 20570 | * | |
| 001408 | 0362 | E842 0001 | 20580 | LDR R6,B2+NETFGS | COMPUTE FINAL PACKET NUMBER |
| 001409 | 0364 | 6046 | 20590 | SOR R6,6 | |
| 001410 | 0365 | EA57 | 20600 | ADD R6,R7 | |
| 001411 | 0366 | 6001 | 20610 | SOL R6,1 | POSITION FOR COMPARE |
| 001412 | 0367 | E644 003A | 20620 | XOR R6,B4+COMMAND | |
| 001413 | 0369 | 82D6 | 20630 | LB R6,'000E' | MUST MATCH EXACTLY |
| | 036A | 000E | | | |
| 001414 | 036B | 0500 0244 | 20640 | BBT CLRERR | ELSE ENTER DTE CLEARING |
| 001415 | 036D | 8385 | 20650 | JMP B5 | RETURN |

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| | | | | | |
|--------|------|-----------|-------|--|--|
| 001416 | | | 20660 | / EJECT | |
| 001417 | | | 20670 | * | |
| 001418 | | | 20680 | * SUPERVISORY COMMAND PROCESSING | |
| 001419 | | | 20690 | * | |
| 001420 | 036E | D380 0329 | 20700 | ITXRR LNJ B5,CKRPS (B4+NETUSR),DCERNR | CHECK PACKET ACKNOWLEDGEMENT |
| 001421 | 0370 | 884C 003F | 20710 | LBF | DCE NO LONGER HUNG |
| | 0372 | 0400 | | | |
| 001422 | 0373 | 0F80 | T | 20720 B .1 | RELEASE COMMAND |
| 001423 | | | | 20730 * | |
| 001424 | 0374 | D380 0329 | | 20740 .ITXRNR LNJ B5,CKRPS (B4+NETUSR),DCERNR | CHECK PACKET ACKNOWLEDGEMENT |
| 001425 | 0376 | 894C 003F | | 20750 LBT | DCE CAN NO LONGER ACCEPT OUTPUT |
| | 0378 | 0400 | | | |
| 001426 | | | | 20760 * | |
| 001427 | 0379 | 8380 0200 | | 20770 .1 JMP CMDRLS | RELEASE COMMAND |
| 001428 | | | | 20780 * | |
| 001429 | | | | 20790 * | |
| 001430 | | | | 20800 *PARSE DATA MESSAGE | |
| 001431 | | | | 20810 * | |
| 001432 | 0373 | D380 0329 | | 20820 IXDATA LNJ B5,CKRPS | CHECK PACKET ACKNOWLEDGEMENT |
| 001433 | 037D | ACC4 003F | | 20830 LDB B2,B4+NETUSR | SEE IF CLOCK NEEDS SETTING |
| 001434 | 037F | 82C2 0001 | | 20840 LB B2+NETFGS,DTERNR+DTEHNG+DTECLK | CHECK PROHIBITORS |
| | 0331 | E000 | | | |
| 001435 | 0382 | 0500 | T | 20850 BBT .1 | |
| 001436 | 0383 | 8942 0001 | | 20860 LBT B2+NETFGS,DTECLK | SET IF NOT PROHIBITED |
| | 0385 | 2000 | | | |
| 001437 | 0386 | EB80 03C4 | | 20870 LAB B6,RNRCLK | HANDLE RESPONSE CLOCK GOING OFF |
| 001438 | 0388 | D870 2A30 | | 20880 LDR R5,=ONESEC*90 | MUST CONFIRM EVEN IF OUR INABILITY CONTINUES |
| 001439 | 038A | D380 078B | | 20890 LNJ B5,SRRCLK | SET RECEIVE RESPONSE CLOCK |
| 001440 | | | | 20900 * | |
| 001441 | 038C | D380 0351 | | 20910 .1 LNJ B5,CKSPS | CHECK PACKET SEQUENCE |
| 001442 | 038E | D380 0000 | X | 20920 LNJ B5,NETCHK | LOAD USERS DEVICE BLOCK |
| 001443 | 0390 | 0200 | | 20930 DC <CMDRLS | IGNORE DATA IF NO ESTABLISHED USER |
| 001444 | 0391 | 89C4 0039 | | 20940 CMZ B4+ADDRSS | CHECK IF DATA QUALIFIER SET |
| 001445 | 0393 | 0B00 03F3 | | 20950 BSU QL FMSG | HANDLE CONTROL INFORMATION |
| 001446 | | | | 20960 * | |
| 001447 | 0395 | 82C1 0008 | | 20970 LB B1+DEVFGS,SONOFF | IF USER GOING AWAY THEN SO DOES DATA |
| | 0397 | 8000 | | | |
| 001448 | 0398 | 0580 0200 | | 20980 BBF CMDRLS | |
| 001449 | 039A | 82C1 0008 | | 20990 LB B1+DEVFGS,DCRDTA | ARE WE DISCARDING DATA |
| | 039C | 0040 | | | |
| 001450 | 039D | 0500 0200 | | 21000 BBT CMDRLS | YES -- DO SO |
| 001451 | 039F | 82CC 003F | | 21010 LB (B4+NETUSR),OUROWN | IF OUR OWN CONNECTION THEN TREAT SPECIAL |
| | 03A1 | 0800 | | | |
| 001452 | 03A2 | 0500 03C8 | | 21020 BBT DCEMSG | |
| 001453 | 03A4 | 82CC 003F | | 21030 LB (B4+NETUSR),DTEPSC | CANT TAKE INPUT IF PACKETS OUTSTANDING |
| | 03A6 | 0003 | | | |
| 001454 | 03A7 | 0500 0200 | | 21040 BBT CMDRLS | SO JUST PITCH DATA |
| 001455 | | | | 21050 * | |
| 001456 | 03A9 | CCD1 | | 21060 LDB B4,=B1 | UTILIZE USER BLOCK |
| 001457 | 03AA | D380 0000 | X | 21070 LNJ B5,DVFIMP | NOTIFY THAT WE HAVE ENCOUNTERED FIRST INPUT |
| 001458 | 03AC | 03BF | | 21080 DC <IXDTE3 | NOBODY CARES |
| 001459 | | | | 21090 * | |

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| | | | | | | | |
|--------|------|-----------|---|--|-----|------------------|---|
| 001460 | 03AD | 9CC4 000F | | 21100 | LDB | B1,B4+HOSTNT | RESTORE NETWORK BLOCK |
| 001461 | 03AF | 9841 0035 | | 21110 | LDR | R1,B1+MSGPTR | SET UP POINTER,LENGTH,BUFFER |
| 001462 | 03B1 | B841 0036 | | 21120 | LDR | R3,B1+MSGLEN | |
| 001463 | 03B3 | 3EFB | | 21130 | ADV | R3,-HDRLEN | WEVE TAKEN CARE OF HEADER |
| 001464 | 03B4 | 9CC1 0034 | | 21140 | LDB | B1,B1+MSGBUF | |
| 001465 | | | | 21150 * | | | |
| 001466 | 03B6 | D380 0000 | X | 21160 | LNJ | B5,DVPINP | PROCESS INPUT |
| 001467 | 03B8 | 0000 | X | 21170 | DC | <GBYTEF | BYTE GRAB ROUTINE |
| 001468 | 03B9 | 0000 | X | 21180 | DC | <FRBLKS | END OF STRING ROUTINE |
| 001469 | 03BA | 03BB | | 21190 | DC | <IXDTE2 | MESSAGE FINISHED |
| 001470 | | | | 21200 * | | | |
| 001471 | 03B8 | CCC4 000F | | 21210 IXDTE2 | LDB | B4,B4+HOSTNT | RESTORE NETWORK BLOCK |
| 001472 | 03BD | 8380 0160 | | 21220 | JMP | XNETIM | PARSE NEXT MESSAGE |
| 001473 | | | | 21230 * | | | |
| 001474 | 03BF | 3C02 | | 21240 IXDTE3 | LDV | R3,XINESC | NOTIFY PARTY THAT INPUT IGNORED |
| 001475 | 03C0 | D380 0000 | X | 21250 | LNJ | B5,DVIMSG | |
| 001476 | 03C2 | 8380 0200 | | 21260 | JMP | CMDRLS | THEN RELEASE COMMAND AND BUFFER |
| 001477 | | | | 21270 * | | | |
| 001478 | | | | 21280 * | | | |
| 001479 | | | | 21290 *RECEIVE RESPONSE CLOCK HAS POPPED | | | |
| 001480 | | | | 21300 * | | | |
| 001481 | 03C4 | 8847 0001 | | 21310 RNRCLK | LBF | B7+NETFGS,DTECLK | NOTE THAT CLOCK NOT RUNNING |
| | 03C6 | 2000 | | | | | |
| 001482 | 03C7 | D380 07AD | | 21320 | LNJ | B5,PRRCLK | POP CLOCK |
| 001483 | 03C9 | 8380 0560 | | 21330 | JMP | XNETOM | ATTEMPT TO FILL OUTPUT REQUEST (IF ANY) |

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| | | | | | |
|--------|------|-----------|-------|--|---------------------------------------|
| 001484 | | | 21340 | /EJECT | |
| 001485 | | | 21350 | * | |
| 001486 | | | 21360 | *HANDLE DATA FOR VIRTUAL CONNECTION WE GENERATED | |
| 001487 | | | 21370 | * | |
| 001488 | 03C8 | 89C1 000B | 21380 | DCEMSG CMZ B1+INPLEV | IS THERE AN INPUTTER FOR THIS MESSAGE |
| 001489 | 03C0 | 0900 0200 | 21390 | BE CMDRLS | NO -- FREE MESSAGE |
| 001490 | 03CF | 9ED4 | 21400 | SWB B1,=B4 | PASS MESSAGE ON -- UNEDITED |
| 001491 | | | 21410 | * | |
| 001492 | 03D0 | B380 0000 | X | 21420 LNJ B3,GETBLK | BUILD MESSAGE HEADER |
| 001493 | 03D2 | BFC4 000C | | 21430 STB B3,B4+INPMMSG | |
| 001494 | 03D4 | B380 0000 | X | 21440 LNJ B3,GETBLK | |
| 001495 | 03D6 | BFCC 000C | | 21450 STB B3,(B4+INPMMSG) | SAVE INFORMATION BLOCK |
| 001496 | 03D8 | ACC1 0034 | | 21460 LDB B2,B1+MSGBUF | |
| 001497 | 03DA | AF83 | | 21470 STB B2,B3 | LINK BUFFERS |
| 001498 | 03DB | E841 0036 | | 21480 LDR R6,B1+MSGLEN | |
| 001499 | 03DD | 6EFB | | 21490 ADV R6,-HDRLEN | ADJUST FOR HEADER |
| 001500 | 03DE | EF43 0003 | | 21500 STR R6,B3+CURLEN | |
| 001501 | 03E0 | E841 0035 | | 21510 LDR R6,B1+MSGPTR | |
| 001502 | 03E2 | EF43 0004 | | 21520 STR R6,B3+NSBERR | STEAL LOCATION FOR POINTER |
| 001503 | 03E4 | 8743 0005 | | 21530 CL B3+MFLAGS | |
| 001504 | 03E6 | D380 0000 | X | 21540 LNJ B5,NETINP | USE SPECIAL NETWORK INPUT ROUTINE |
| 001505 | 03E8 | 8744 000C | | 21550 CL B4+INPMMSG | NOT IN USE ANYMORE |
| 001506 | | | 21560 | * | |
| 001507 | 03EA | CCC4 000F | | 21570 LDB B4,B4+HOSTNT | RESTORE NETWORK CONTROL BLOCK |
| 001508 | 03EC | ACC4 003F | | 21580 LDB B2,B4+NETUSR | HANG UNTIL WE RECEIVE RESPONSE |
| 001509 | 03EE | 8942 0001 | | 21590 LBT B2+NETFGS,DTEHNG | |
| | 03F0 | 4000 | | | |
| 001510 | 03F1 | 8380 0160 | | 21600 JMP XNETIM | PARSE NEXT MESSAGE |

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| | | | | | |
|--------|------|-----------|---------------------------|-----------------------|-------------------------|
| 001511 | | 21610 | /EJECT | | |
| 001512 | | 21620 | * | | |
| 001513 | | 21630 | *PARSE QUALIFIED MESSAGES | | |
| 001514 | | 21640 | * | | |
| 001515 | 03F3 | FCD1 | 21650 | QLFMSG LDB B7,=B1 | SAVE USERS BLOCK ASIDE |
| 001516 | 03F4 | 9CC4 0034 | 21660 | LDB B1,B4+MSGBUF | LOAD MESSAGE PERTINENTS |
| 001517 | 03F6 | 9844 0035 | 21670 | LDR R1,B4+MSGPTR | |
| 001518 | 03F8 | F844 0036 | 21680 | LDR R7,B4+MSGLEN | |
| 001519 | 03FA | 7EFB | 21690 | ADV R7,-HDRLEN | ADJUST FOR HEADER |
| 001520 | 03F3 | 7900 0244 | 21700 | BEZ R7,CLRERR | MUST HAVE INFORMATION |
| 001521 | | | 21710 | * | |
| 001522 | 03FD | A2DD | 21720 | LLH R2,POP B1+R1 | CHECK MESSAGE TYPE |
| 001523 | 03FE | 88D7 | 21730 | DEC R7 | |
| 001524 | 03FF | 2D07 | 21740 | CMV R2,Q\$CMAX | CHECK AGAINST MAX CODE |
| 001525 | 0400 | 0280 0244 | 21750 | BGE CLRERR | MUST HAVE PROPER CODE |
| 001526 | | | 21760 | * | |
| 001527 | 0402 | ABA0 040B | 21770 | LAB B2,DTEQMG+R2 | ASSUME MESSAGE TO DTE |
| 001528 | 0404 | 82CC 003F | 21780 | LB (B4+NETUSR),OUROWN | DID WE START THIS MESS? |
| | | 0406 0800 | | | |
| 001529 | 0407 | 0580 | T 21790 | BBF .1 | NO |
| 001530 | 0408 | ABA0 0412 | 21800 | LAB B2,DCEQMG+R2 | MESSAGE TO DCE |
| 001531 | | | 21810 | * | |
| 001532 | 040A | 838A | 21820 | .1 JMP (B2) | ROUTE TO PROPER HANDLER |
| 001533 | | | 21830 | * | |
| 001534 | 040B | 0419 | 21840 | DTEQMG DC <QMSGT1 | PARAMETERS |
| 001535 | 040C | 0244 | 21850 | DC <CLRERR | DISCONNECT |
| 001536 | 040D | 0244 | 21860 | DC <CLRERR | SET PARAMETERS |
| 001537 | 040E | 0457 | 21870 | DC <QMSGT2 | BREAK |
| 001538 | 040F | 0244 | 21880 | DC <CLRERR | READ PARAMETERS |
| 001539 | 0410 | 0244 | 21890 | DC <CLRERR | ERROR |
| 001540 | 0411 | 0244 | 21900 | DC <CLRERR | SET AND READ PARAMETERS |
| 001541 | | | 21910 | * | |
| 001542 | 0412 | 0244 | 21920 | DCEQMG DC <CLRERR | PARAMETERS |
| 001543 | 0413 | 0464 | 21930 | DC <QMSGC1 | DISCONNECT |
| 001544 | 0414 | 0466 | 21940 | DC <QMSGC2 | SET PARAMETERS |
| 001545 | 0415 | 0244 | 21950 | DC <CLRERR | BREAK |
| 001546 | 0416 | 0484 | 21960 | DC <QMSGC3 | READ PARAMETERS |
| 001547 | 0417 | 0244 | 21970 | DC <CLRERR | ERROR |
| 001548 | 0418 | 0244 | 21980 | DC <CLRERR | SET AND READ PARAMETERS |

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| | | | | | |
|--------|------|-----------|---------|---|---|
| 001549 | | | 21990 | /EJECT | |
| 001550 | | | 22000 | * | |
| 001551 | | | 22010 | *HANDLE RECEIPT OF PARAMETERS FROM DCE | |
| 001552 | | | 22020 | * | |
| 001553 | 0419 | 7002 | 22030 | QMSGT1 CMV R7,2 | ONLY PARAMETER ALLOWED IS SPEED |
| 001554 | 041A | 0980 0244 | 22040 | BNE CLRERR | |
| 001555 | 041C | E380 0000 | X | 22050 LNJ B6,GBYTEB | GET WHAT SHOULD BE SPEED |
| 001556 | 041E | 6D0B | | 22060 CMV R6,P\$RSPD | |
| 001557 | 041F | 0980 0244 | | 22070 BNE CLRERR | NOPE |
| 001558 | | | 22080 * | | |
| 001559 | 0421 | E380 0000 | X | 22090 LNJ B6,GBYTEB | GET SPEED CODE |
| 001560 | 0423 | 6008 | | 22100 SOL R6,8 | POSITION PROPERLY |
| 001561 | 0424 | F870 0800 | | 22110 LDR R7,=X25TIP | RETURN X25 NETWORK CODE |
| 001562 | 0426 | ACC4 003F | | 22120 LDB B2,B4+NETUSR | SAVE SPEED DETERMINATION |
| 001563 | 0428 | E442 0006 | | 22130 OR R6,B2+NTINFO | COMBINE SPEED WITH AREA CODE |
| 001564 | 042A | 8D42 0006 | | 22140 SDI B2+NTINFO | |
| 001565 | 042C | D380 0000 | X | 22150 LNJ B5,SYSCON | CONNECT TO SYSTEMS CONTROL |
| 001566 | 042E | 8380 0244 | | 22160 JMP CLRERR | IF NO MEMORY -- ENTER CLEARING CONDITION |
| 001567 | | | 22170 * | | |
| 001568 | 0430 | 8947 0008 | | 22180 LBT B7+DEVFGS,SONOFF+QMFLSH | GO ONLINE |
| | 0432 | 8020 | | | |
| 001569 | 0433 | CCC7 000F | | 22190 LDB B4,B7+HOSTNT | RESTORE NETWORK BLOCK |
| 001570 | | | 22200 * | | |
| 001571 | 0435 | D870 8000 | | 22210 LDR R5,'8000' | STACK SET BREAK AND DISCARD OUTPUT PARAMS |
| 001572 | 0437 | D380 0815 | | 22220 LNJ B5,BLDMSG | |
| 001573 | 0439 | 6C02 | | 22230 LDV R6,Q\$STPM | SET PARAMETERS |
| 001574 | 043A | E70D | | 22240 STH R6,POP B1+R1 | |
| 001575 | 043B | BCD1 | | 22250 LDB B3,=B1 | RETAIN START OF MESSAGE |
| 001576 | 043C | AB80 044C | | 22260 LAB B2,CPARAM | POINT TO CONNECT PARAMETERS |
| 001577 | 043E | 8752 | | 22270 CL R2 | |
| 001578 | 043F | 3CEA | | 22280 LDV R3,-CPARML*2 | SET LOOP COUNTER |
| 001579 | | | 22290 * | | |
| 001580 | 0440 | E2EE | | 22300 .1 LLH R6,POP B2+R2 | LOAD NEXT VALUE |
| 001581 | 0441 | E380 0000 | X | 22310 LNJ B6,PBYTEG | PLACE IN MESSAGE |
| 001582 | 0443 | 37FD | T | 22320 BINC R3,.1 | LOOP UNTIL EXHAUSTED |
| 001583 | | | 22330 * | | |
| 001584 | 0444 | 9CD3 | | 22340 LDB B1,=B3 | RESTORE STARTING LOCATION OF MESSAGE |
| 001585 | 0445 | 7E17 | | 22350 ADV R7,CPARML*2+1 | INCREASE LENGTH |
| 001586 | 0446 | ABC4 0005 | | 22360 LAB B2,B4+OUTQ | |
| 001587 | 0448 | D380 0803 | | 22370 LNJ B5,ADMSGQ | ADD THIS MESSAGE TO OUTPUT QUEUE |
| 001588 | 044A | 8380 0200 | | 22380 JMP CMDRLS | RELEASE MESSAGE AND CONTINUE |
| 001589 | | | 22390 * | | |
| 001590 | 044C | 0302 | | 22400 CPARAM DC Z'03020400071508000A000C01002112041C1B1D004007' | CONNECT PARAMETERS |
| | 044D | 0400 | | | |
| | 044E | 0715 | | | |
| | 044F | 0800 | | | |
| | 0450 | 0A00 | | | |
| | 0451 | 0C01 | | | |
| | 0452 | 0021 | | | |
| | 0453 | 1204 | | | |
| | 0454 | 1C1B | | | |
| | 0455 | 1000 | | | |

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0456 4007 000B 22410 CPARML EQU \$-CPARAM NUMBER OF WORDS IN PARAMATERS
001591

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| | | | | |
|--------|----------------|---------|--|---|
| 001592 | | 22420 | / EJECT | |
| 001593 | | 22430 | * | |
| 001594 | | 22440 | *HANDLE RECEIPT OF BREAK INDICATION | |
| 001595 | | 22450 | * | |
| 001596 | 0457 7D02 | 22460 | QMSGT2 CMV R7,2 | BREAK CONTAINS DISABLE OUTPUT PARAMETER |
| 001597 | 0458 0980 0244 | 22470 | BNE CLRERR | CLEAR CONNECTION IF FALSE |
| 001598 | 045A E380 0000 | X 22480 | LNJ B6,GBYTEB | GET PARAMETER COMMAND |
| 001599 | 045C 6D08 | 22490 | CMV R6,P\$DSOT | DISCARD OUTPUT? |
| 001600 | 045D 0980 0244 | 22500 | BNE CLRERR | NOPE -- CLEAR CONNECTION IF FALSE |
| 001601 | 045F 8847 0008 | 22510 | LBF B7+DEVFGS,DCRDTA | DONT DISCARD RECEIVED MESSAGES |
| 0461 | 0040 | | | |
| 001602 | 0462 8380 0200 | 22520 | JMP CMDRLS | RELEASE MESSAGE AND CONTINUE |
| 001603 | | 22530 | * | |
| 001604 | | 22540 | * | |
| 001605 | | 22550 | *HANDLE RECEIPT OF CLEAR INDICATION | |
| 001606 | | 22560 | * | |
| 001607 | 0464 8380 0247 | 22570 | QMSGC1 JMP CLRDTE | START DISCONNECT (NO DATA FORWARD) |
| 001608 | | 22580 | * | |
| 001609 | | 22590 | * | |
| 001610 | | 22600 | *HANDLE REQUEST TO SET PARAMETERS FROM DTE | |
| 001611 | | 22610 | * | |
| 001612 | 0466 7900 | T 22620 | QMSGC2 BEZ R7,.4 | MUST HAVE PARAMETERS TO SET |
| 001613 | 0467 7BFF | T 22630 | BODD R7,.4 | MUST BE PAIRED |
| 001614 | | 22640 | * | |
| 001615 | 0468 E380 0000 | X 22650 | .1 LNJ B6,GBYTEB | GET NEXT PARAMETER TYPE CODE |
| 001616 | 046A 6900 0200 | 22660 | BEZ R6,CMDRLS | STOP SCAN WHEN NATIONAL MARKER FOUND |
| 001617 | 046C D856 | 22670 | LDR R5,R6 | SAVE COMMAND ASIDE |
| 001618 | 046D E380 0000 | X 22680 | LNJ B6,GBYTEB | GET OPTION SETTING |
| 001619 | 046F 5D07 | 22690 | CMV R5,P\$SBRK | BREAK OPTIONS? |
| 001620 | 0470 0900 | T 22700 | BE .2 | |
| 001621 | 0471 5D08 | 22710 | CMV R5,P\$DSOT | DISCARD OUTPUT OPTION? |
| 001622 | 0472 0980 | T 22720 | BNE .3 | |
| 001623 | | 22730 | * | |
| 001624 | 0473 82D6 | | 22740 LB R6,'FFFF' | CHECK FOR VALID SETTINGS |
| 0474 | FFFE | | | |
| 001625 | 0475 0572 | T 22750 | BBT .4 | |
| 001626 | 0476 82D6 | | 22760 LB R6,'0001' | COPY SETTING |
| 0477 | 0001 | | | |
| 001627 | 0478 8A47 0008 | | 22770 LBS B7+DEVFGS,DCRDTA | |
| 047A | 0040 | | | |
| 001628 | 047B OFF7 | T 22780 | B .3 | LOOP FOR NEXT PARAMETER |
| 001629 | | 22790 | * | |
| 001630 | 047C 6D15 | | 22800 .2 CMV R6,21 | MUST BE DEFAULT SETTING |
| 001631 | 047D 09F8 | T 22810 | BNE .4 | |
| 001632 | | 22820 | * | |
| 001633 | 047E 7EFE | | 22830 .3 ADV R7,-2 | REDUCE OVERALL LENGTH |
| 001634 | 047F 79E9 | T 22840 | BNEZ R7,.1 | LOOP FOR ALL PARAMETERS |
| 001635 | 0480 8380 0200 | | 22850 JMP CMDRLS | RELEASE MESSAGE AND CONTINUE |
| 001636 | | 22860 | * | |
| 001637 | 0482 8380 0244 | | 22870 .4 JMP CLRERR | HANDLE PARAMETERS WHICH CONFUSE US |

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|--------|------|-----------|-------|---|------------------------------------|
| 001638 | | | 22880 | /EJECT | |
| 001639 | | | 22890 | * | |
| 001640 | | | 22900 | *HANDLE REQUEST FOR PARAMETER VALUES FROM DTE | |
| 001641 | | | 22910 | * | |
| 001642 | 0484 | 7D02 | 22920 | .QMSGC3 CMV R7,2 | ONLY PARAMETER ALLOWED IS SPEED |
| 001643 | 0485 | 09FD | 22930 | BNE .4 | |
| 001644 | 0486 | E380 0000 | 22940 | LNJ B6,GBYTEB | GET WHAT SHOULD BE SPEED |
| 001645 | 0488 | 6D0B | 22950 | CMV R6,P\$RSPD | |
| 001646 | 0489 | 09F9 | 22960 | BNE .4 | NOPE |
| 001647 | 048A | E380 0000 | 22970 | LNJ B6,GBYTEB | GET SPEED CODE |
| 001648 | 048C | 69F6 | 22980 | BNEZ R6,.4 | MUST NOT HAVE A VALUE |
| 001649 | | | 22990 | * | |
| 001650 | 048D | D870 8000 | 23000 | LDR R5,'8000' | PREP DATA QUALIFIED MESSAGE |
| 001651 | 048F | D380 0815 | 23010 | LNJ B5,BLDMSG | |
| 001652 | 0491 | 4C00 | 23020 | LDV R4,Q\$PRMS | SUPPLY PARAMETERS |
| 001653 | 0492 | C7DD | 23030 | STH R4,POP B1+R1 | |
| 001654 | 0493 | 4C0B | 23040 | LDV R4,P\$RSPD | RETURN SPEED |
| 001655 | 0494 | C7DD | 23050 | STH R4,POP B1+R1 | |
| 001656 | 0495 | ACC4 003F | 23060 | LDB B2,B4+NETUSR | LOAD AND RETURN SPEED |
| 001657 | 0497 | E842 0006 | 23070 | LDR R6,B2+NTINFO | |
| 001658 | 0499 | E7DD | 23080 | STH R6,POP B1+R1 | |
| 001659 | | | 23090 | * | |
| 001660 | 049A | 7E03 | 23100 | ADV R7,3 | ADD OUR MESSAGE TO QUALIFIED QUEUE |
| 001661 | 049B | ABC4 0005 | 23110 | LAB B2,B4+OUTQ | |
| 001662 | 049D | D380 0803 | 23120 | LNJ B5,ADMSGQ | ADD THIS MESSAGE TO OUTPUT QUEUE |
| 001663 | | | 23130 | * | |
| 001664 | 049F | 8380 0200 | 23140 | JMP CMDRLS | RELEASE MESSAGE AND CONTINUE |

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| | | | | | | |
|--------|------|-------------|----------|-----------------------------|--|--|
| 001665 | | | 23150 | /EJECT | | |
| 001666 | | | 23160 | * | | |
| 001667 | | | 23170 | *INTERRUPT INDICATION | | |
| 001668 | | | 23180 | * | | |
| 001669 | 04A1 | 82CC 003F | 23190 | ITXII LB (B4+NETUSR),OUROWN | IF WERE INITIATOR THEN CANT HAPPEN | |
| | 04A3 | 0800 | | | | |
| 001670 | 04A4 | 0500 0244 | 23200 | BBT CLRERR | CLEAR IF IT DOES | |
| 001671 | 04A6 | 894C 003F | 23210 | LBT (B4+NETUSR),RSPPOND | SET FLAG TO RESPOND TO INTERRUPT | |
| | 04A8 | 1000 | | | | |
| 001672 | 04A9 | 0500 T | 23220 | BBT .3 | IF ONE IN PROGRESS THEN IGNORE ANOTHER | |
| 001673 | | | 23230 | * | | |
| 001674 | 04AA | D380 0000 X | 23240 | LNJ B5,NETCHK | FIND USERS BLOCK | |
| 001675 | 04AC | 0200 | 23250 | DC <CMDRLS | FINISHED IF NO USER ASSOCIATED | |
| 001676 | | | 23260 | * | | |
| 001677 | 04AD | CCD1 | 23270 | LDB B4,=B1 | WORK WITH NETWORK USER DEVICE BLOCK | |
| 001678 | 04AE | 8944 0008 | 23280 | LBT B4+DEVFGS,DCRDTA+QMFLSH | DISCARD DATA UNTIL BREAK RECEIVED | |
| | 04B0 | 0060 | | | | |
| 001679 | 04B1 | D380 0000 X | 23290 | LNJ B5,DQRBRK | GIVE BREAK TO ALL PARTIES | |
| 001680 | 04B3 | D380 0000 X | 23300 | LNJ B5,DEVKOT | KILL ALL DEVICE QUEUED OUTPUT | |
| 001681 | 04B5 | D380 0000 X | 23310 | LNJ B5,DVKINP | KILL ANY REMAINING INPUT | |
| 001682 | 04B7 | 4C02 | 23320 | LDV R4,Q\$STPM | SET DISCARD OUTPUT FALSE | |
| 001683 | | | 23330 | * | | |
| 001684 | 04B8 | CCC4 000F | 23340 .1 | LDB B4,B4+HOSTNT | RESTORE NETWORK BLOCK | |
| 001685 | 04BA | D870 8000 | 23350 | LDR R5,'8000' | PREP DATA QUALIFIED MESSAGE | |
| 001686 | 04BC | D380 0815 | 23360 | LNJ B5,BLDMSG | | |
| 001687 | 04BE | C7DD | 23370 | STH R4,POP B1+R1 | | |
| 001688 | 04BF | E870 0008 | 23380 | LDR R6,=PM\$ENO | ASSUME WERE TO ENABLE OUTPUT | |
| 001689 | 04C1 | 4D02 | 23390 | CMV R4,Q\$STPM | IS THIS OPTIONS SETTING ATTEMPT | |
| 001690 | 04C2 | 0900 T | 23400 | BE .2 | YESSIR | |
| 001691 | 04C3 | E870 0108 | 23410 | LDR R6,=PM\$DSO | ELSE ITS INDICATION OF BREAK..DISABLE OUTPUT | |
| 001692 | | | 23420 | * | | |
| 001693 | 04C5 | E7DD | 23430 .2 | STH R6,POP B1+R1 | STORE DISCARD OUTPUT COMMAND/OPTION | |
| 001694 | 04C6 | 6048 | 23440 | SOR R6,8 | | |
| 001695 | 04C7 | E7DD | 23450 | STH R6,POP B1+R1 | | |
| 001696 | 04C8 | F851 | 23460 | LDR R7,R1 | COMPUTE LENGTH | |
| 001697 | 04C9 | 7EFE | 23470 | ADV R7,-2 | | |
| 001698 | 04CA | ABC4 0005 | 23480 | LAB B2,B4+OUTQ | | |
| 001699 | 04CC | D380 0803 | 23490 | LNJ B5,ADMSGQ | ADD THIS MESSAGE TO OUTPUT QUEUE | |
| 001700 | | | 23500 | * | | |
| 001701 | 04CE | 8380 0200 | 23510 .3 | JMP CMDRLS | RELEASE MESSAGE | |

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| | | | | |
|-----------|------------------|-------|------------------------------|---|
| 001702 | | 23520 | /EJECT | |
| 001703 | | 23530 | * | |
| 001704 | | 23540 | *INTERRUPT CONFIRMATION | |
| 001705 | | 23550 | * | |
| 001706 | 0400 8200 003F | 23560 | .ITXIC LB (B4+NETUSR),OUROWN | WE MUST BE INITIATOR FOR THIS TO HAPPEN |
| 0402 0800 | | | | |
| 001707 | 0403 0580 0244 | 23570 | BBF CLRERR | CLEAR IF WERE NOT |
| 001708 | | 23580 | * | |
| 001709 | 0405 D380 0000 X | 23590 | LNJ B5,NETCHK | FIND USERS BLOCK |
| 001710 | 0407 0200 | 23600 | DC <CMDRLS | FINISHED IF NO USER ASSOCIATED |
| 001711 | 0408 8841 0008 | 23610 | LBF B1+DEVFGS,BRKACT | CLEAR USER BREAK FLAG |
| 040A 0080 | | | | |
| 001712 | 040B 0580 0244 | 23620 | BBF CLRERR | WHAT FLAG? |
| 001713 | 040D 4C03 | 23630 | LDV R4,Q\$IBRK | SEND INDICATION OF BREAK MESSAGE |
| 001714 | 040E 0F0A T | 23640 | B .1 | JOIN MESSAGE BUILDER |

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| | | | | | | |
|--------|------|-----------|-------|-------------------------|------------------------------|------------------------------|
| 001715 | | | 23650 | /EJECT | | |
| 001716 | | | 23660 | * | | |
| 001717 | | | 23670 | *PRINT MESSAGE IN ERROR | | |
| 001718 | | | 23680 | * | | |
| 001719 | 040F | D380 0000 | X | 23690 | PNTERM LNJ B5,MGSTRT | ALLOCATE MESSAGE |
| 001720 | 04E1 | AB80 050A | | 23700 | LAB B2,NERMSG | ERROR MESSAGE |
| 001721 | 04E3 | 2C10 | | 23710 | LDV R2,NERMLG*2 | |
| 001722 | 04E4 | D380 0000 | X | 23720 | LNJ B5,MGCOPY | |
| 001723 | 04E6 | ACD7 | | 23730 | LDB B2,=B7 | QUALIFY MESSAGE |
| 001724 | 04E7 | 2C02 | | 23740 | LDV R2,2 | |
| 001725 | 04E8 | D380 0000 | X | 23750 | LNJ B5,MGCOPY | |
| 001726 | 04EA | E844 0036 | | 23760 | LDR R6,B4+MSGLEN | SPIT LENGTH OUT |
| 001727 | 04EC | D380 0000 | X | 23770 | LNJ B5,MGHEX | |
| 001728 | | | 23780 | * | | |
| 001729 | 04EE | 2C02 | | 23790 | LDV R2,2 | POINT AT TOP OF MESSAGE |
| 001730 | 04EF | AF44 0035 | | 23800 | STR R2,B4+MSGPTR | |
| 001731 | | | 23810 | * | | |
| 001732 | 04F1 | 89C4 0036 | | 23820 | .1 CMZ B4+MSGLEN | ANY LEFT TO PRINT? |
| 001733 | 04F3 | 0900 | T | 23830 | BE .2 | |
| 001734 | 04F4 | D380 0000 | X | 23840 | LNJ B5,MGCHAR | SPACE ONCE |
| 001735 | 04F6 | 0020 | | 23850 | DC \$ASCSP | |
| 001736 | 04F7 | ACC4 0034 | | 23860 | LDB B2,B4+MSGBUF | LOOK UP NEXT BYTE |
| 001737 | 04F9 | A844 0035 | | 23870 | LDR R2,B4+MSGPTR | |
| 001738 | 04FB | E380 0000 | X | 23880 | LNJ B6,GBTXB | LOAD AND BUMP |
| 001739 | 04FD | AFC4 0034 | | 23890 | STB B2,B4+MSGBUF | UPDATE |
| 001740 | 04FF | AF44 0035 | | 23900 | STR R2,B4+MSGPTR | |
| 001741 | 0501 | 88C4 0036 | | 23910 | DEC B4+MSGLEN | |
| 001742 | 0503 | D380 0000 | X | 23920 | LNJ B5,MGHEXH | SPIT NEXT BYTE OUT |
| 001743 | 0505 | 0FEC | T | 23930 | B .1 | |
| 001744 | | | 23940 | * | | |
| 001745 | 0506 | DBC7 0001 | | 23950 | .2 LAB B5,B7+1 | RETURN AFTER SENDING MESSAGE |
| 001746 | 0508 | 8380 0000 | X | 23960 | JMP MSGEND | |
| 001747 | | | 23970 | * | | |
| 001748 | 050A | 5832 | | 23980 | NERMSG DC 'X25 NET MSG ERR ' | IF MESSAGE FLAWED |
| | 0508 | 3520 | | | | |
| | 050C | 4E45 | | | | |
| | 050D | 5420 | | | | |
| | 050E | 4D53 | | | | |
| | 050F | 4720 | | | | |
| | 0510 | 4552 | | | | |
| | 0511 | 5220 | | | | |
| 001749 | | 0008 | | 23990 | NERMLG EQU -\$-NERMSG | |

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|--------|------|-----------|-------------------------|--|---|
| 001750 | | | 24000 | /EJECT | |
| 001751 | | | 24010 | * | |
| 001752 | | | 24020 | * DEVICE WOULD APPRECIATE ANOTHER OUTPUT MESSAGE | |
| 001753 | | | 24030 | * | |
| 001754 | 0512 | FCC4 000F | 24040 | XNTOTM LDB B7,B4+HOSTNT | WORK WITH NETWORK DEVICE |
| 001755 | 0514 | CED7 | 24050 | SWB B4,=B7 | |
| 001756 | 0515 | D380 0000 | X | 24060 LNJ B5,CKOUTQ | ANY OUTPUT TO BE FOUND? |
| 001757 | 0517 | 0524 | | 24070 DC <XNTOTX | MORE OUTPUT |
| 001758 | | | 24080 | * | |
| 001759 | 0518 | CED7 | 24090 | SWB B4,=B7 | ADJUST REGISTERS |
| 001760 | 0519 | 8947 0008 | | 24100 LBT B7+DEVFGS,TSKSNT | HAVE WE SENT TASK TO CREATE MORE? |
| | 051B | 0020 | | | |
| 001761 | 051C | 0500 | T | 24110 BBT .1 | YES .. RETURN WITHOUT OUTPUT |
| 001762 | 051D | 5C30 | | 24120 LDV R5,NETLEV | |
| 001763 | 051E | E880 055A | | 24130 LAB B6,XNETOT | BUILD SOME MORE OUTPUT |
| 001764 | 0520 | B380 0000 | X | 24140 LNJ B3,BLDTSK | |
| 001765 | | | 24150 | * | |
| 001766 | 0522 | 8380 0000 | X | 24160 .1 JMP TSKRTN | NORMAL RETURN INDICATES NOTHING TO SEND |
| 001767 | | | 24170 | * | |
| 001768 | 0524 | CED7 | 24180 XNTOTX SWB B4,=B7 | ADJUST REGISTERS | |
| 001769 | 0525 | 9CC7 0025 | | 24190 LDB B1,B7+OMSGFB | COPY A MESSAGE FROM NET TO DEVICE |
| 001770 | 0527 | 9847 0026 | | 24200 LDR R1,B7+OMSGFP | |
| 001771 | 0529 | D811 | | 24210 LDR R5,B1+R1 | |
| 001772 | 052A | E380 0000 | X | 24220 LNJ B6,GWORDF | |
| 001773 | 052C | E380 0000 | X | 24230 LNJ B6,GWORDF | |
| 001774 | 052E | 9FC7 0025 | | 24240 STB B1,B7+OMSGFB | SAVE UPDATED POINTERS |
| 001775 | 0530 | 9F47 0026 | | 24250 STR R1,B7+OMSGFP | |
| 001776 | | | 24260 | * | |
| 001777 | 0532 | 9CC4 0029 | | 24270 LDB B1,B4+OMSGLB | EXTEND DEVICE MESSAGE QUEUE |
| 001778 | 0534 | 9844 002A | | 24280 LDR R1,B4+OMSGLP | |
| 001779 | 0536 | DE56 | | 24290 SWR R5,R6 | |
| 001780 | 0537 | E380 0000 | X | 24300 LNJ B6,PWORDG | |
| 001781 | 0539 | E855 | | 24310 LDR R6,R5 | |
| 001782 | 053A | E330 0000 | X | 24320 LNJ B6,PWORDG | |
| 001783 | 053C | 9FC4 0029 | | 24330 STB B1,B4+OMSGLB | SAVE UPDATED POINTERS |
| 001784 | 053E | 9F44 002A | | 24340 STR R1,B4+OMSGLP | |
| 001785 | 0540 | 8380 0000 | X | 24350 JMP TSKRTE | EXCEPTION RETURN USED TO INDICATE MORE OUTPUT |
| 001786 | | | 24360 | * | |
| 001787 | | | 24370 | * | |
| 001788 | | | 24380 | * ROUTINE TO HANDLE CALL BACK TO DEVICE | |
| 001789 | | | 24390 | * | |
| 001790 | 0542 | 82C7 0008 | | 24400 XNTCBK LB B7+DEVFGS,SONOFF | ARE WE STILL ONLINE? |
| | 0544 | 8000 | | | |
| 001791 | 0545 | 0580 | T | 24410 BBF .1 | |
| 001792 | 0546 | CCC7 0015 | | 24420 LDB B4,B7+MOTHER | INFORM DEVICE IF WAITING |
| 001793 | 0548 | 82C4 0011 | | 24430 LB B4+PFLAGS,IDL EOT | |
| | 054A | 0400 | | | |
| 001794 | 054B | 0500 0000 | X | 24440 BBT TSKRTN | USE NORMAL ROUTINE TO WAKE DEVICE |
| 001795 | | | 24450 | * | |
| 001796 | 054D | 8380 0000 | X | 24460 .1 JMP SMCPXT | GO BACK TO SLEEP |

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|--------|------|-----------|-------|---|---------------------------------|---|
| 001797 | | | 24470 | /EJECT | | |
| 001798 | | | 24480 | * | | |
| 001799 | | | 24490 | * ROUTINE TO CREATE A NETWORK PACKET TO BE SENT | | |
| 001800 | | | 24500 | * | | |
| 001801 | 054F | 8944 0011 | 24510 | XNETOY LBT | B4+PFLAGS, IDLEOT | WE NEED OUTPUT |
| | 0551 | 0400 | | | | |
| 001802 | 0552 | BB80 0558 | 24520 | LAB | B3,XNETOZ | WAKE US UP IF NEEDED |
| 001803 | 0554 | BFC4 000A | 24530 | STB | B3,B4+TSKRET | |
| 001804 | 0556 | 8380 0000 | X | 24540 | JMP | SMCPXT |
| 001805 | | | 24550 | * | | |
| 001806 | 0558 | 08FC | 24560 | XNETOZ DC | <NETERR | NO EXCEPTION RETURN |
| 001807 | 0559 | 0F87 | | 24570 B | \$XNETOM | ATTEMPT TO FILL OUTPUT REQUEST (IF ANY) |
| 001808 | | | 24580 | * | | |
| 001809 | 055A | CCD7 | 24590 | XNETOT LDB | B4,=B7 | ADJUST REGISTERS |
| 001810 | 055B | 82C4 0008 | | 24600 LB | B4+DEVFGS, SONOFF | ARE WE STILL ONLINE? |
| | 055D | 8000 | | | | |
| 001811 | 055E | 0580 0000 | X | 24610 BBF | SMCPXT | NO -- SIT AND WAIT |
| 001812 | | | 24620 | * | | |
| 001813 | 0560 | 8844 0011 | 24630 | XNETOM LBF | B4+PFLAGS, IDLEOT | WE WILL FIGURE THIS OUT LATER |
| | 0562 | 0400 | | | | |
| 001814 | 0563 | 82C4 0008 | 24640 | LB | B4+DEVFGS, TSKSNT | DID DEVICE STILL WANT MESSAGE |
| | 0565 | 0020 | | | | |
| 001815 | 0566 | 0580 0000 | X | 24650 BBF | SMCPXT | NO -- GO BACK TO SLEEP |
| 001816 | | | 24660 | * | | |
| 001817 | 0568 | 82C4 0008 | 24670 | LB | B4+DEVFGS, RSTRTM | ARE WE IN RESTART MODE? |
| | 056A | 0400 | | | | |
| 001818 | 056B | 0580 | T | 24680 BBF | .2 | |
| 001819 | 056C | 8944 0008 | | 24690 LBT | B4+DEVFGS, RSTRTX | HAVE WE SENT INDICATION? |
| | 056E | 0100 | | | | |
| 001820 | 056F | 0560 | | 24700 BBT | \$XNETOY | YES -- NOTHING MORE TO SAY |
| 001821 | | | 24710 | * | | |
| 001822 | 0570 | 8744 0039 | 24720 | CL | B4+ADDRESS | SEND WITH ADDRESS=0 |
| 001823 | 0572 | 82C4 0008 | | 24730 LB | B4+DEVFGS, RSTRTR | ARE WE INVOKING A RESPONSE? |
| | 0574 | 0200 | | | | |
| 001824 | 0575 | 0580 | T | 24740 BBF | .1 | NO -- A RESTART SENT BY US |
| 001825 | 0576 | D870 00FF | | 24750 LDR | R5,=\$X25RC | SEND RESET CONFIRMATION |
| 001826 | 0578 | 3844 0008 | | 24760 LBF | B4+DEVFGS, RSTRTM+RSTRTR+RSTRTX | LEAVE RESTART MODE |
| | 057A | 0700 | | | | |
| 001827 | 057B | 8380 06D4 | | 24770 JMP | RSPNDA | BUILD PROTOTYPE MESSAGE |
| 001828 | | | 24780 | * | | |
| 001829 | 057D | D870 5460 | 24790 | .1 LDR | R5,=ONESEC*180 | MUST FINISH INSIDE THREE MINUTES |
| 001830 | 057F | EB80 021D | | 24800 LAB | B6,REINIT | ELSE WE SHOULD RE-ISSUE IT |
| 001831 | 0581 | FCD4 | | 24810 LDB | B7,=B4 | CLOCKS WORK WITH <B7> |
| 001832 | 0582 | D380 0000 | X | 24820 LNJ | B5,ADDCLK | ONE MORE CLOCK |
| 001833 | 0584 | BFC4 000C | | 24830 STB | B3,B4+RNTCLK | SAVE CLOCK ASIDE |
| 001834 | 0586 | D870 00FB | | 24840 LDR | R5,=\$X25RI | SEND RESET INDICATION |
| 001835 | 0588 | 8380 06D8 | | 24850 JMP | RSPNDB | BUILD PROTOTYPE MESSAGE |
| 001836 | | | 24860 | * | | |
| 001837 | 058A | A844 0038 | | 24870 .2 LDR | R2,B4+LSTUSR | SCAN THROUGH USERS LIST FOR MESSAGE TO SEND |
| 001838 | 058C | 0F80 | T | 24880 B | .3 | JOIN TOP OF LOOP |
| 001839 | | | 24890 | * | | |
| 001840 | 058D | A844 0037 | | 24900 .XNETOL LDR | R2,B4+SVCUSR | CHECK IF WE HAVE FINISHED SCAN |

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|--------|------|-----------|----------|-----|--------------|
| 001841 | 058F | A944 0038 | 24910 | CMR | R2,B4+LSTUSR |
| 001842 | 0591 | 0900 054F | 24920 | BE | XNETOY |
| 001843 | | | 24930 * | | |
| 001844 | 0593 | 8AD2 | 24940 .3 | INC | R2 |
| 001845 | 0594 | A570 007F | 24950 | AND | R2,'007F' |
| 001846 | 0596 | AF44 0037 | 24960 | STR | R2,B4+SVCUSR |
| 001847 | 0598 | AF44 0039 | 24970 | STR | R2,B4+ADDRSS |
| 001848 | 059A | ACC4 000E | 24980 | LDB | B2,B4+NETMAP |
| 001849 | 059C | 8DA2 | 24990 | CMN | B2+R2 |
| 001850 | 059D | 0970 | 25000 | BE | \$XNETOL |
| 001851 | 059E | ACA2 | 25010 | LDB | B2,B2+R2 |
| 001852 | 059F | AFC4 003F | 25020 | STB | B2,B4+NETUSR |
| 001853 | | | 25030 * | | |
| 001854 | 05A1 | 8802 | 25040 | LBF | B2,RSPOND |
| | 05A2 | 1000 | | | |
| 001855 | 05A3 | 0500 069F | 25050 | BBT | XNETOR |

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SCAN FINISHED -- NOTHING TO SAY

ANALYZE NEXT VIRTUAL CONNECTION PORT
ISOLATE TO ADDRESS BITS IN USE

IS THERE A NON 'READY' STATE SET

NO -- TRY NEXT CHANNEL

COPY MAP BLOCK OVER

ARE WE TO RESPOND TO SOMETHING?

YES -- BUILD RESPONSE

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|--------|------|-----------|-------|-----------------------------|------------------|-------------------|--|----------------------------------|
| 001856 | | | 25060 | /EJECT | | | | |
| 001857 | | | 25070 | * | | | | |
| 001858 | | | 25080 | *CHECK IF RNR LOGIC INVOKED | | | | |
| 001859 | | | 25090 | * | | | | |
| 001860 | 05A5 | 8842 0001 | 25100 | LBF | B2+NETFGS,DTERNR | HAS RNR BEEN SENT | | |
| | 05A7 | 8000 | | | | | | |
| 001861 | 05A8 | 0580 | T | 25110 | BBF | .32 | | |
| 001862 | 05A9 | 82C2 0001 | | 25120 | LB | B2+NETFGS,DTEHNG | ARE WE STILL HUNG? | |
| | 05AB | 4000 | | | | | | |
| 001863 | 05AC | 0580 0698 | | 25130 | BBF | SNDRRX | FORCE RECEIVE READY OUT | |
| 001864 | | | | 25140 | * | | | |
| 001865 | 05AE | 8942 0001 | | 25150 | .31 | LBT | B2+NETFGS,DTERNR | NOT READY HAS BEEN SENT |
| | 05B0 | 8000 | | | | | | |
| 001866 | 05B1 | D380 074A | | 25160 | LNJ | B5,UCKRPS | ANYTHING TO CONFIRM? | |
| 001867 | 05B3 | 0580 | T | 25170 | BBF | .4 | NO -- SEND DATA IF WE GOT ANY | |
| 001868 | 05B4 | D380 0752 | | 25180 | LNJ | B5,UPDRPS | UPDATE RECEIVE SEQUENCE | |
| 001869 | 05B6 | 5E05 | | 25190 | ADV | R5,\$X25NR | | |
| 001870 | 05B7 | D380 0815 | | 25200 | LNJ | B5,BLDMSG | BUILD PROTOTYPE MESSAGE | |
| 001871 | 05B9 | 8380 06FB | | 25210 | JMP | XNETOX | RETURN (PRINT MONITORS) | |
| 001872 | | | | 25220 | * | | | |
| 001873 | 05B8 | 82C2 0001 | | 25230 | .32 | LB | B2+NETFGS,DTEHNG | ARE WE STILL UNABLE TO CONTINUE |
| | 05BD | 4000 | | | | | | |
| 001874 | 05BE | 0580 | T | 25240 | BBF | .33 | | |
| 001875 | 05BF | 82C2 0001 | | 25250 | LB | B2+NETFGS,DTECLK | IF RESPONSE CLOCK RUNNING? | |
| | 05C1 | 2000 | | | | | | |
| 001876 | 05C2 | 05EC | T | 25260 | BBF | .31 | NO -- SEND RNR | |
| 001877 | 05C5 | 0FF0 | T | 25270 | B | .4 | SEND DATA -- DONT CONFIRM PACKETS | |
| 001878 | | | | 25280 | * | | | |
| 001879 | 05C4 | 8842 0001 | | 25290 | .33 | LBF | B2+NETFGS,DTECLK | RESET CLOCK IF IT WAS RUNNING |
| | 05C6 | 2000 | | | | | | |
| 001880 | 05C7 | B380 079C | | 25300 | LNJ | B3,KRRCLK | RESET RECEIVE RESPONSE CLOCK | |
| 001881 | | | | 25310 | * | | | |
| 001882 | 05C9 | D380 0000 | X | 25320 | .4 | LNJ | B5,NETCHK | SEE IF USER BLOCK EXISTS |
| 001883 | 05CB | 0666 | | 25330 | DC | < SNDQMX | NO ATTEMPT TO SEND QUALIFIED MESSAGES | |
| 001884 | 05CC | FCD1 | | 25340 | LDB | B7,=B1 | WORK WITH USERS BLOCK NOW | |
| 001885 | | | | 25350 | * | | | |
| 001886 | 05CD | CCD7 | | 25360 | .XNETOE | LDB | B4,=B7 | RESTORE USERS BLOCK TO FOREFRONT |
| 001887 | 05CE | D380 0000 | X | 25370 | LNJ | B5,DVGOUT | ANY OUTPUT? | |
| 001888 | 05D0 | FCD4 | | 25380 | LDB | B7,=B4 | MOVE USERS BLOCK ASIDE | |
| 001889 | 05D1 | CCC7 000F | | 25390 | LDB | B4,B7+HOSTNT | RESTORE NETWORK CONTROL BLOCK | |
| 001890 | 05D3 | 3980 | T | 25400 | BNEZ | R3,.6 | BUILD OUTPUT MESSAGE | |
| 001891 | | | | 25410 | * | | | |
| 001892 | 05D4 | 82C7 0008 | | 25420 | LB | B7+DEVFGS,SONOFF | ARE WE OFFLINE NOW? | |
| | 05D6 | 8000 | | | | | | |
| 001893 | 05D7 | 0500 0668 | | 25430 | BBT | SENDQM | NOPE -- TRY SENDING QUALIFIED MESSAGES | |
| 001894 | 05D9 | 82C7 0008 | | 25440 | LB | B7+DEVFGS,OFLTSK | INSURE WE DONT KILL CONNECTIONS BEFORE | |
| | 05DB | 4000 | | | | | | |
| 001895 | 05DC | 0580 0668 | | 25450 | BBF | SENDQM | WE GET SPEED BACK TO START THEM UP | |

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| | | | | | | | |
|--------|------|-----------|-------|---------------------------------|-------------|------------------------------|--|
| 001896 | | | 25460 | /EJECT | | | |
| 001897 | | | 25470 | * | | | |
| 001898 | | | 25480 | * FORCE DISCONNECT FROM NETWORK | | | |
| 001899 | | | 25490 | * | | | |
| 001900 | 05DE | ABC4 0002 | 25500 | LAB | B2,B4+SOFTQ | RELEASE USERS BLOCK | |
| 001901 | 05E0 | 9CD7 | 25510 | LDB | B1,=B7 | | |
| 001902 | 05E1 | 0060 | 25520 | DQA | | RELEASE THIS USER | |
| 001903 | 05E2 | 0680 08FC | 25530 | BCF | NETERR | HANDLE FUNNY MACHINE | |
| 001904 | 05E4 | 0980 08FC | 25540 | BNE | NETERR | WHY ME LORD | |
| 001905 | 05E6 | B380 0000 | X | 25550 | LNJ | B3,FNETBK | RELEASE NETWORK BLOCK |
| 001906 | | | 25560 | * | | | |
| 001907 | 05E8 | 8200 003F | | 25570 | LB | (B4+NETUSR),OUROWN | IF OUR CONNECTION THEN START DISCONNECT |
| | 05EA | 0800 | | | | | |
| 001908 | 05EB | 0580 | T | 25580 | BBF | .5 | |
| 001909 | 05EC | D380 07BC | | 25590 | LNJ | B5,CLRUSR | FREE USERS INFORMATION |
| 001910 | 05EE | B380 0797 | | 25600 | LNJ | B3,KTOCLK | RESET ANY PREVIOUS CLOCK |
| 001911 | 05F0 | B380 079C | | 25610 | LNJ | B3,KRRCLK | RESET RECEIVE RESPONSE CLOCK |
| 001912 | 05F2 | 8740 003F | | 25620 | CL | (B4+NETUSR) | ENTER DTE CLEARING MODE |
| 001913 | 05F4 | 8940 003F | | 25630 | LBT | (B4+NETUSR),X\$CLR | |
| | 05F6 | 6000 | | | | | |
| 001914 | 05F7 | 8380 069F | | 25640 | JMP | XNETOR | ENTER RESPONSE GENERATOR |
| 001915 | | | | 25650 | * | | |
| 001916 | 05F9 | D870 8000 | | 25660 | .5 | LDR R5,'8000' | BUILD QUALIFIED MESSAGE |
| 001917 | 05FB | D380 0815 | | 25670 | LNJ | B5,BLDMSG | BUILD PROTOTYPE MESSAGE |
| 001918 | 05FD | 6C01 | | 25680 | LDV | R6,Q\$IDSC | |
| 001919 | 05FE | E7DD | | 25690 | STH | R6,POP B1+R1 | |
| 001920 | 05FF | 8AD7 | | 25700 | INC | R7 | INCREASE MESSAGE LENGTH |
| 001921 | 0600 | ABC4 0005 | | 25710 | LAB | B2,B4+OUTQ | ADD MESSAGE TO QUEUE |
| 001922 | 0602 | D380 0803 | | 25720 | LNJ | B5,ADMSGQ | |
| 001923 | 0604 | 8380 0666 | | 25730 | JMP | SNDQMX | NOW SEND QUALIFIED MESSAGES (IF ABLE) |
| 001924 | | | | 25740 | * | | |
| 001925 | 0606 | 8200 003F | | 25750 | .6 | LB (B4+NETUSR),DTEPSF+DCERNR | ANY REASON NOT TO SEND? |
| | 0608 | 0402 | | | | | |
| 001926 | 0609 | 0500 068D | | 25760 | BBT | SENDRR | YES -- QUALIFIED WONT EVEN FLY |
| 001927 | 060B | 8207 0008 | | 25770 | LB | B7+DEVFGS,QMFLSH | ARE WE TO SEND QUALIFIED MESSAGES FIRST? |
| | 060D | 0020 | | | | | |
| 001928 | 060E | 0500 0668 | | 25780 | BBT | SENDQM | YES -- MAYBE QUALIFIED WILL FLY |
| 001929 | 0610 | 8755 | | 25790 | CL | R5 | NO NETWORK COMMAND YET |
| 001930 | 0611 | D380 0815 | | 25800 | LNJ | B5,BLDMSG | BUILD PROTOTYPE MESSAGE |
| 001931 | | | | 25810 | * | | |
| 001932 | 0613 | 9FC4 003B | | 25820 | STB | B1,B4+MSGHDR | SAVE FIRST BUFFER FOR RETURNING |
| 001933 | 0615 | 9FC4 0034 | | 25830 | STB | B1,B4+MSGBUF | SAVE BUFFER |
| 001934 | 0617 | 9F44 0035 | | 25840 | STR | R1,B4+MSGPTR | SAVE POINTER |
| 001935 | 0619 | 8744 0036 | | 25850 | CL | B4+MSGLEN | SAVE VACUOUS LENGTH |
| 001936 | | | | 25860 | * | | |
| 001937 | 0613 | CC07 | | 25870 | LDB | B4,=B7 | WORK WITH USER AGAIN |
| 001938 | 061C | D380 0000 | X | 25880 | LNJ | B5,DVKINP | CLEAR ANY INPUT QUEUED |
| 001939 | 061E | D380 0000 | X | 25890 | LNJ | B5,DVGOUT | GET FIRST BLOCK OF OUTPUT |

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|--------|----------|-----------|----------------------------|-----------------------|---|
| 001940 | | 25900 | /EJECT | | |
| 001941 | | 25910 | * | | |
| 001942 | | 25920 | *COPY OUTPUT MESSAGE LOGIC | | |
| 001943 | | 25930 | * | | |
| 001944 | 0620 | BCC4 000F | 25940 .7 | LDB B3,B4+HOSTNT | LOAD BUFFERS, ETC. |
| 001945 | 0622 | ACC3 0034 | 25950 | LDB B2,B3+MSGBUF | |
| 001946 | 0624 | A843 0035 | 25960 | LDR R2,B3+MSGPTR | |
| 001947 | 0626 | F843 0036 | 25970 | LDR R7,B3+MSGLEN | |
| 001948 | | | 25980 * | | |
| 001949 | 0623 | 82CB 003F | 25990 | LB (B3+NETUSR),OUROWN | IF OUR CONNECTION THEN DONT EDIT DATA |
| | 062A | 0800 | | | |
| 001950 | 0623 | 0580 | T 26000 | BBF .72 | |
| 001951 | | | 26010 * | | |
| 001952 | 062C | E380 0000 | X 26020 .71 | LNJ B6,GBYTEF | COPY STRAIGHT OVER |
| 001953 | 062E | E380 0000 | X 26030 | LNJ B6,PBYTXG | |
| 001954 | 0630 | 88D3 | 26040 | DEC R3 | ONE LESS FROM MESSAGE |
| 001955 | 0631 | 8AD7 | 26050 | INC R7 | ONE MORE INTO MESSAGE |
| 001956 | 0632 | 3900 | T 26060 | BEZ R3,.75 | IF EMPTY THEN CUT AND SEND |
| 001957 | 0633 | 7D7F | 26070 | CMV R7,127 | ARE WE AT MESSAGE MAX LENGTH |
| 001958 | 0634 | 03F8 | T 26080 | BLE .71 | NOPE -- ROOM LEFT -- COPY AGAIN |
| 001959 | 0635 | 0FFD | T 26090 | B .75 | IF MESSAGE FILLED THEN CUT AND SEND |
| 001960 | | | 26100 * | | |
| 001961 | 0636 | E291 | 26110 .72 | LLH R6,B1+R1 | LOAD BYTE TO TRANSMIT |
| 001962 | 0637 | 82C4 0008 | 26120 | LB B4+DEVFGS,OTPURE | IF PURE OUTPUT THEN SAVE IT |
| | 0639 | 0008 | | | |
| 001963 | 063A | 0500 | T 26130 | BBT .73 | |
| 001964 | 063B | E570 007F | 26140 | AND R6,'007F' | ISOLATE TO DATA BITS |
| 001965 | 063D | 6900 | T 26150 | BEZ R6,.74 | IGNORE NULLS |
| 001966 | 063E | 607F | 26160 | CMV R6,\$ASCRO | IGNORE FILLS |
| 001967 | 063F | 097E | T 26170 | BE .74 | |
| 001968 | | | 26180 * | | |
| 001969 | 0640 | 7D7F | 26190 .73 | CMV R7,127 | ARE WE PAST MESSAGE MAX |
| 001970 | 0641 | 0374 | T 26200 | BG .75 | YES -- NO ROOM -- EXIT |
| 001971 | 0642 | E380 0000 | X 26210 | LNJ B6,PBYTXG | SAVE IN OUTPUT CHAIN |
| 001972 | 0644 | 8AD7 | 26220 | INC R7 | ONE MORE INTO THE HOPPER |
| 001973 | | | 26230 * | | |
| 001974 | 0645 | E380 0000 | X 26240 .74 | LNJ B6,GBYTEF | RELEASE LAST BYTE |
| 001975 | 0647 | 88D3 | 26250 | DEC R3 | |
| 001976 | 0648 | 39EE | T 26260 | BNEZ R3,.72 | TRY AGAIN |
| 001977 | | | 26270 * | | |
| 001978 | 0649 | AFC3 0034 | 26280 | STB B2,B3+MSGBUF | SAVE INTERIM BUFFERS, ETC. |
| 001979 | 064B | AF43 0035 | 26290 | STR R2,B3+MSGPTR | |
| 001980 | 064D | FF43 0036 | 26300 | STR R7,B3+MSGLEN | |
| 001981 | | | 26310 * | | |
| 001982 | 064F | D380 0000 | X 26320 | LNJ B5,DVRROUT | RETURN USED OUTPUT |
| 001983 | 0651 | 39CF | T 26330 | BNEZ R3,.7 | |
| 001984 | 0652 | 0F80 | T 26340 | B .76 | JOIN COMMON WRAPUP |
| 001985 | | | 26350 * | | |
| 001986 | 0653 | FF43 0036 | 26360 .75 | STR R7,B3+MSGLEN | SAVE FINAL LENGTH |
| 001987 | 0655 | D380 0000 | X 26370 | LNJ B5,DVRROUT | RETURN USED OUTPUT |
| 001988 | | | 26380 * | | |
| 001989 | 0657 | FCD4 | 26390 .76 | LDB B7,=B4 | RETAIN USERS BLOCK |

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|--------|------|-----------|-------|-------|--------------|-----------------------------------|------------------------------------|
| 001990 | 0658 | CCC7 000F | 26400 | LDB | B4,B7+HOSTNT | RESTORE NETWORK BLOCK | |
| 001991 | 065A | 9CC4 003B | 26410 | LDB | B1,B4+MSGHDR | LOAD TOP BUFFER IN OUTPUT MESSAGE | |
| 001992 | 065C | F844 0036 | 26420 | LDR | R7,B4+MSGLEN | RESTORE ACTUAL MESSAGE LENGTH | |
| 001993 | 065E | 7E05 | 26430 | ADV | R7,HDRLEN | ADD HEADER LENGTH TO TOTAL | |
| 001994 | 065F | 7D05 | 26440 | CMV | R7,HDRLEN | VACUOUS MESSAGE? | |
| 001995 | 0660 | 0980 06E1 | 26450 | BNE | XNETOW | NO -- FINISH MESSAGE | |
| 001996 | 0662 | E380 0000 | X | 26460 | LNJ | B6,FRBLKS | RELEASE MESSAGE WHICH NEVER FILLED |
| 001997 | 0664 | 8380 05CD | 26470 | JMP | XNETOE | CHECK OFFLINE LOGIC | |

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| | | | | | |
|--------|------|-----------|--|------------------------------|-------------------------------------|
| 001998 | | 26480 | /EJECT | | |
| 001999 | | 26490 | * | | |
| 002000 | | 26500 | *CHECK IF QUALIFIED MESSAGE WILL FLY | | |
| 002001 | | 26510 | * | | |
| 002002 | 0666 | FC80 08FB | 26520 SNDQMX | LDB B7,ZERO | CLEAR USER BLOCK REGISTER |
| 002003 | | 26530 | * | | |
| 002004 | 0668 | 82CC 003F | 26540 SENDQM | LB (B4+NETUSR),DTEPSF+DCERNR | ANY REASON NOT TO SEND? |
| | 066A | 0402 | | | |
| 002005 | 066B | 0522 | 26550 | BBT \$SENDRR | TRY CONFIRMING SOME PACKETS |
| 002006 | | 26560 | * | | |
| 002007 | 066C | ABC4 0005 | 26570 | LAB B2,B4+OUTQ | SEE IF ANY CONTROL MESSAGES STACKED |
| 002008 | 066E | D844 0039 | 26580 | LDR R5,B4+ADDRSS | |
| 002009 | 0670 | D404 | 26590 | OR R5,B4 | |
| 002010 | 0671 | 0062 | 26600 | DQH | |
| 002011 | 0672 | 0630 08FC | 26610 | BCF NETERR | HANDLE FUNNY MACHINE |
| 002012 | 0674 | 0980 | T 26620 | BNE .1 | NONE OR OURS FOUND |
| 002013 | | 26630 | * | | |
| 002014 | 0675 | 8944 0039 | 26640 | LBT B4+ADDRSS,'9000' | SET QUALIFIER ON (FOR TRACE) |
| | 0677 | 9000 | | | |
| 002015 | 0678 | F841 0006 | 26650 | LDR R7,B1+RWORD | GET ACTUAL MESSAGE LENGTH |
| 002016 | 067A | BCC1 0004 | 26660 | LDB B3,B1+UWORD | GET MESSAGE BUFFER ADDRESS |
| 002017 | 067C | BF31 | 26670 | STB B3,B1 | POP BUFFER ADDRESS WITH RELEASE |
| 002018 | 067D | B380 0000 | X 26680 | LNJ B3,RELBLK | |
| 002019 | 067F | 8380 06E1 | 26690 | JMP XNETOW | FINISH MESSAGE |
| 002020 | | 26700 | * | | |
| 002021 | 0681 | 0200 | T 26710 | .1 BL .2 | NONE FOUND |
| 002022 | 0682 | D801 | 26720 | LDR R5,B1 | PUT UNWANTED BLOCK BACK |
| 002023 | 0683 | 0063 | 26730 | QOH | |
| 002024 | 0684 | 0680 08FC | 26740 | BCF NETERR | HANDLE FUNNY MACHINE |
| 002025 | | 26750 | * | | |
| 002026 | 0685 | 8007 | 26760 | .2 CMN =B7 | IS THERE A USER BLOCK TO WORK WITH |
| 002027 | 0687 | 0906 | 26770 | BE \$SENDRR | NOPE |
| 002028 | 0688 | 8847 0008 | 26780 | LBF B7+DEVFGS,QMFLSH | QUALIFIED MESSAGES ARE FLUSHED |
| | 068A | 0020 | | | |
| 002029 | 068B | 0500 05CD | 26790 | BBT XNETOE | RETRY WHOLE MESS IF FLUSH WAS SET |
| 002030 | | 26800 | * | | |
| 002031 | | 26810 | * | | |
| 002032 | | 26820 | *CHECK IF PACKET CONFIRMATION NEED BE SENT | | |
| 002033 | | 26830 | * | | |
| 002034 | 068D | ACC4 003F | 26840 SENDRR | LDB B2,B4+NETUSR | CHECK IF ABLE TO CONFIRM BLOCKS |
| 002035 | 068F | D380 074A | 26850 | LNJ B5,UCKRPS | ANYTHING TO CONFIRM? |
| 002036 | 0691 | 0580 | T 26860 | BBF .1 | NO |
| 002037 | 0692 | 82C2 0001 | 26870 | LB B2+NETFGS,DTEHNG | ARE STILL HUNG ON LAST BATCH |
| | 0694 | 4000 | | | |
| 002038 | 0695 | 0583 | 26880 | BBF \$SNDRRX | NOPE -- ACKNOWLEDGE BLOCKS |
| 002039 | | 26890 | * | | |
| 002040 | 0696 | 8380 058D | 26900 | .1 JMP XNETOL | LOOP FOR ANOTHER USER |
| 002041 | | 26910 | * | | |
| 002042 | 0693 | D380 0752 | 26920 SNDRRX | LNJ B5,UPDRPS | UPDATE RECEIVE SEQUENCE |
| 002043 | 069A | 5E01 | 26930 | ADV R5,\$X25RR | ALWAYS RESPOND WITH RECEIVE READY |
| 002044 | 069B | D380 0815 | 26940 | LNJ B5,BLDMSG | BUILD PROTOTYPE MESSAGE |
| 002045 | 069D | 8380 06FB | 26950 | JMP XNETOX | RETURN (PRINT MONITORS) |

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|--------|------|-----------|--|-------------------------|--|
| 002046 | | 26960 | /EJECT | | |
| 002047 | | 26970 | * | | |
| 002048 | | 26980 | *RESPOND BIT SET -- GENERATE CONTROL MESSAGE | | |
| 002049 | | 26990 | * | | |
| 002050 | 069F | A84C 003F | 27000 XNETOR | LDR R2,(B4+NETUSR) | BRANCH BASED ON MAJOR STATE |
| 002051 | 06A1 | A570 E000 | 27010 | AND R2,=X\$MODE | |
| 002052 | 06A3 | 2013 | 27020 | SCL R2,3 | |
| 002053 | 06A4 | ABA0 06A7 | 27030 | LAB B2,RSPTAB+R2 | |
| 002054 | 06A5 | 838A | 27040 | JMP (B2) | CALL PROCESSOR |
| 002055 | | 27050 | * | | |
| 002056 | 06A7 | 08FC | 27060 RSPTAB | DC <NETERR | 0 -- READY (TOTALLY OFF) |
| 002057 | 06A8 | 06AF | 27070 | DC <RSPND1 | 1 -- DTE WAITING (SEND CALL REQUEST) |
| 002058 | 06A9 | 06C0 | 27080 | DC <RSPND2 | 2 -- DCE WAITING (RESPOND TO CALL RQST) |
| 002059 | 06AA | 06C7 | 27090 | DC <RSPND3 | 3 -- DTE CLEARING |
| 002060 | 06AB | 06CF | 27100 | DC <RSPND4 | 4 -- DCE CLEARING |
| 002061 | 06AC | 06D3 | 27110 | DC <RSPND5 | 5 -- INFORMATION TRANSFER (DTE) |
| 002062 | 06AD | 06D7 | 27120 | DC <RSPND6 | 6 -- INFORMATION TRANSFER (DCE) |
| 002063 | 06AE | 08FC | 27130 | DC <NETERR | 7 -- UNDEFINED |
| 002064 | | 27140 | * | | |
| 002065 | 06AF | EB80 023E | 27150 RSPND1 | LAB B6,WTGCLK | WHEN CONNECT SENT, SET 90 SECOND CLOCK |
| 002066 | 06B1 | D870 2A30 | 27160 | LDR R5,=ONESEC*90 | |
| 002067 | 06B3 | D380 0786 | 27170 | LNJ B5,STOCLK | |
| 002068 | 06B5 | 5C0B | 27180 | LDV R5,\$X25CI | THEN SEND CALL REQUEST PACKET |
| 002069 | 06B6 | AB80 06DE | 27190 | LAB B2,CRQMSG | COPY CALL REQUEST MESSAGE |
| 002070 | 06B8 | 2C06 | 27200 | LDV R2,CRQMGL | |
| 002071 | | 27210 | * | | |
| 002072 | 06B9 | D380 0815 | 27220 | LNJ B5,BLDMSG | BUILD MESSAGE PROTOTYPE |
| 002073 | 06BB | 9857 | 27230 | LDR R1,R7 | |
| 002074 | 06BC | D380 0000 | X 27240 | LNJ B5,MGCOPY | |
| 002075 | 06BE | F851 | 27250 | LDR R7,R1 | MOVE LENGTH ASIDE |
| 002076 | 06BF | 0F9D | 27260 | B \$RSPNDX | THEN SEND AND EXIT |
| 002077 | | 27270 | * | | |
| 002078 | 06C0 | 874C 003F | 27280 RSPND2 | CL (B4+NETUSR) | ENTER INFORMATION TRANSFER STATE |
| 002079 | 06C2 | 894C 003F | 27290 | LBT (B4+NETUSR),X\$ITTX | |
| | 06C4 | A000 | | | |
| 002080 | 06C5 | 5C0F | 27300 | LDV R5,\$X25CC | CONFIRM CALL |
| 002081 | 06C6 | 0F8E | 27310 | B \$RSPNDA | WITH NO ADDITIONAL INFORMATION |
| 002082 | | 27320 | * | | |
| 002083 | 06C7 | EB80 023E | 27330 RSPND3 | LAB B6,WTGCLK | WHEN CLEAR SENT, SET 90 SECOND CLOCK |
| 002084 | 06C9 | D870 2A30 | 27340 | LDR R5,=ONESEC*90 | |
| 002085 | 06CB | D380 0786 | 27350 | LNJ B5,STOCLK | |
| 002086 | 06CD | 5C13 | 27360 | LDV R5,\$X250I | THEN SEND CLEAR REQUEST PACKET |
| 002087 | 06CE | 0F8A | 27370 | B \$RSPNDB | WITH ZERO BYTE FOLLOWING COMMAND |
| 002088 | | 27380 | * | | |
| 002089 | 06CF | B380 07F9 | 27390 RSPND4 | LNJ B3,RLSMAP | GO READY WHEN CLEAR CONFIRMATION SENT |
| 002090 | 06D1 | 5C17 | 27400 | LDV R5,\$X250C | |
| 002091 | 06D2 | 0F82 | 27410 | B \$RSPNDA | WITH NO ADDITIONAL DATA |
| 002092 | | 27420 | * | | |
| 002093 | 06D3 | 5C27 | 27430 RSPND5 | LDV R5,\$X251C | NOTHING SPECIAL WHEN INTERRUPT CONFIRMED |
| 002094 | | 27440 | * | | |
| 002095 | 06D4 | D380 0815 | 27450 RSPNDA | LNJ B5,BLDMSG | BUILD PROTOTYPE MESSAGE |
| 002096 | 06D5 | 0F86 | 27460 | B \$RSPNDX | THEN SEND AND EXIT |

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|--------|------|-----------|-------|--------|-----|-----------------|-------------------------------------|
| 002097 | | 27470 | * | | | | |
| 002098 | 06D7 | 5C23 | 27480 | RSPND6 | LDV | R5,\$X25II | NOTHING SPECIAL WHEN INTERRUPT SENT |
| 002099 | | | 27490 | * | | | |
| 002100 | 06D8 | D380 0815 | 27500 | RSPNDB | LNJ | B5,BLDMSG | BUILD PROTOTYPE MESSAGE |
| 002101 | 06DA | 87DD | 27510 | | CLH | POP B1+R1 | WE DONT NEED ANY CAUSE |
| 002102 | 06DB | 8AD7 | 27520 | | INC | R7 | INCREASE MESSAGE LENGTH |
| 002103 | | | 27530 | * | | | |
| 002104 | 06DC | 8380 06FB | 27540 | RSPNDX | JMP | XNETOX | RETURN (PRINT MONITORS) |
| 002105 | | | 27550 | * | | | |
| 002106 | 06DE | 0000 | 27560 | CRQMSG | DC | Z'000000000000' | SIX BYTES OF NOTHING |
| | 06DF | 0000 | | | | | |
| | 06E0 | 0000 | | | | | |
| 002107 | | 0006 | 27570 | CRQMGL | EQU | 6 | |

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| | | | | |
|--------|------|-----------|---|---|
| 002108 | | 27580 | /EJECT | |
| 002109 | | 27590 | * | |
| 002110 | | 27600 | * IF FIRST PACKET OUT THEN SET CLOCK FOR CONFIRMATION | |
| 002111 | | 27610 | * | |
| 002112 | 06E1 | 9FC4 0034 | 27620 XNETOW STB | B1,B4+MSGBUF SAVE BUFFER ADDRESS/LENGTH |
| 002113 | 06E3 | FF44 0036 | 27630 STR | R7,B4+MSGLEN |
| 002114 | 06E5 | E380 076C | 27640 LNJ | B6,UPDSPS CREATE <I> WITH PACKETS ROTATED |
| 002115 | | 27650 * | | |
| 002116 | 06E7 | E84C 003F | 27660 LDR | R6,(B4+NETUSR) WORK WITH CONTROL BITS |
| 002117 | 06E9 | 1C06 | 27670 LDV | R1,2+HDRLEN-1 POINT AT NETWORK COMMAND |
| 002118 | 06EA | D791 | 27680 STH | R5,B1+R1 SAVE ACTUAL COMMAND |
| 002119 | 06EB | DF44 003A | 27690 STR | R5,B4+COMAND SAVE COMMAND FOR TRACE |
| 002120 | | 27700 * | | |
| 002121 | 06ED | 6EFF | 27710 ADV | R6,-DTEPSI CHECK PACKET COUNT |
| 002122 | 06EE | 82D6 | 27720 LB | R6,DTEPSC FOR OTHERS OUTSTANDING |
| | 06EF | 0003 | | |
| 002123 | 06F0 | 0500 | T 27730 BBT | .1 YES -- CLOCK SET ALREADY |
| 002124 | | | 27740 * | |
| 002125 | 06F1 | EB80 023E | 27750 LAB | B6,WTGCLK WINDOW MUST MOVE WITHIN THREE MINUTES |
| 002126 | 06F3 | D870 5460 | 27760 LDR | R5,=ONESEC*180 |
| 002127 | 06F5 | D380 0786 | 27770 LNJ | B5,STOCLK |
| 002128 | | | 27780 * | |
| 002129 | 06F7 | 9CC4 0034 | 27790 .1 LDB | B1,B4+MSGBUF RESTORE BUFFER ADDRESS/LENGTH |
| 002130 | 06F9 | F844 0036 | 27800 LDR | R7,B4+MSGLEN |
| 002131 | | | 27810 *FALL THROUGH TO RETURN...PRINT MONITORS | |

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|--------|------|-----------|-------|---|--|-----------------------|
| 002132 | | | 27820 | /EJECT | | |
| 002133 | | | 27830 | * | | |
| 002134 | | | 27840 | *ADD MESSAGE TO OUTPUT QUEUE, PRINT TRACE IF APPLICABLE | | |
| 002135 | | | 27850 | * | | |
| 002136 | 06FB | ACD1 | 27860 | XNETOX LDB B2,B1 | MOVE BUFFER ADDRESS ASIDE | |
| 002137 | 06FC | 9CC4 0029 | 27870 | LDB B1,B4+OMSGLB | ADD INTO CHAIN | |
| 002138 | 06FE | 9844 002A | 27880 | LDR R1,B4+OMSGLP | | |
| 002139 | 0700 | AF91 | 27890 | STB B2,B1+R1 | | |
| 002140 | 0701 | E811 | 27900 | LDR R6,B1+R1 | SAVE BUFFER ADDRESS | |
| 002141 | 0702 | E380 0000 | X | 27910 | LNJ B6,PWORDG | |
| 002142 | 0704 | E857 | 27920 | LDR R6,R7 | SAVE MESSAGE LENGTH | |
| 002143 | 0705 | EF44 0036 | 27930 | STR R6,B4+MSGLEN | | |
| 002144 | 0707 | E380 0000 | X | 27940 | LNJ B6,PWORDG | |
| 002145 | | | 27950 | * | | |
| 002146 | 0702 | 8E70 0083 | 27960 | LEV =\$LVDIS+HANGLV | FREEZE WHILE WE UPDATE CHAIN | |
| 002147 | 0708 | 9FC4 0029 | 27970 | STB B1,B4+OMSGLB | UPDATE STOPPING POINT | |
| 002148 | 070D | 9F44 002A | 27980 | STR R1,B4+OMSGLP | | |
| 002149 | 070F | 8844 0008 | 27990 | LBF B4+DEVFGS,TSKSNT | NO LONGER A TASK TO CREATE OUTPUT | |
| | 0711 | 0020 | | | | |
| 002150 | 0712 | 8E70 803F | 28000 | LEV =\$LVEXI | RETURN TO NETWORK LEVEL | |
| 002151 | | | 28010 | * | | |
| 002152 | 0714 | EB80 0542 | 28020 | LAB B6,XNTCBK | ATTEMPT A CALLBACK | |
| 002153 | 0716 | D844 0009 | 28030 | LDR R5,B4+TSKINF | | |
| 002154 | 0718 | FCD4 | 28040 | LDB B7,B4 | | |
| 002155 | 0719 | B380 0000 | X | 28050 | LNJ B3,BLDTSK | |
| 002156 | | | 28060 | * | | |
| 002157 | 071B | E804 | 28070 | LDR R6,B4 | ARE WE MONITORING THE NETWORK | |
| 002158 | 071C | E900 0000 | X | 28080 | CMR R6,MONNET | |
| 002159 | 071E | 0900 | T | 28090 | BE .1 | |
| 002160 | 071F | 6C7F | 28100 | LDV R6,'7F' | YES -- SEND MESSAGE | |
| 002161 | 0720 | E544 0039 | 28110 | AND R6,B4+ADDRSS | ARE WE MONITORING CERTAIN NETWORK LINE | |
| 002162 | 0722 | E404 | 28120 | OR R6,B4 | | |
| 002163 | 0723 | E900 0000 | X | 28130 | CMR R6,MONNET | |
| 002164 | 0725 | 0980 | T | 28140 | BNE .3 | |
| 002165 | | | 28150 | * | NOPE -- SKIP MONITORS | |
| 002166 | 0726 | D380 0000 | X | 28160 | .1 LNJ B5,MGSTRT | START MONITOR MESSAGE |
| 002167 | | | 28170 | * | | |
| 002168 | 0728 | E804 | 28180 | LDR R6,B4 | PRINT NETWORK ADDRESS | |
| 002169 | 0729 | D380 0000 | X | 28190 | LNJ B5,MGHEX | |
| 002170 | 072B | D380 0000 | X | 28200 | LNJ B5,MGCHAR | |
| 002171 | 072D | 002D | | 28210 | DC \$ASCD\$ | |
| 002172 | | | 28220 | * | | |
| 002173 | 072E | E844 0039 | 28230 | LDR R6,B4+ADDRSS | PRINT SUPPLIED ADDRESS | |
| 002174 | 0730 | D380 0000 | X | 28240 | LNJ B5,MGHEX | |
| 002175 | 0732 | D380 0000 | X | 28250 | LNJ B5,MGCHAR | |
| 002176 | 0734 | 532F | 28260 | DC \$ASCS★Z'0100'+\$ASCFS | SEPARATE DATUM | |
| 002177 | | | 28270 | * | | |
| 002178 | 0735 | E844 003A | 28280 | LDR R6,B4+COMAND | SPIT COMMAND OUT | |
| 002179 | 0737 | D380 0000 | X | 28290 | LNJ B5,MGHEXH | |
| 002180 | 0739 | D380 0000 | X | 28300 | LNJ B5,MGCHAR | |
| 002181 | 073B | 0020 | | 28310 | DC \$ASCSP | |
| 002182 | | | 28320 | * | SPACE ONCE | |

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| | | | | | | | |
|--------|------|-----------|---|----------|-----|--------------|--|
| 002183 | 073C | E844 0036 | | 28330 | LDR | R6,B4+MSGLEN | TEST WHETHER DATA EXISTS |
| 002184 | 073E | 6EFB | | 28340 | ADV | R6,-HDRLEN | |
| 002185 | 073F | 6900 | T | 28350 | BEZ | R6,.2 | NOPE -- SEND MESSAGE |
| 002186 | 0740 | D380 0000 | X | 28360 | LNJ | B5,MGHEX | |
| 002187 | | | | 28370 * | | | |
| 002188 | 0742 | D380 0000 | X | 28380 .2 | LNJ | B5,MGSEND | FORCE MESSAGE |
| 002189 | | | | 28390 * | | | |
| 002190 | 0744 | E844 0037 | | 28400 .3 | LDR | R6,B4+SVCUSR | SET STOPPING POINT |
| 002191 | 0746 | EF44 0038 | | 28410 | STR | R6,B4+LSTUSR | |
| 002192 | 0748 | 8380 0000 | X | 28420 | JMP | SMCPXT | GO TO SLEEP UNTIL SOMETHING ELSE HAPPENS |

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| | | | | | |
|--------|------|-----------|-------|---|---|
| 002193 | | | 28430 | /EJECT | |
| 002194 | | | 28440 | * | |
| 002195 | | | 28450 | *ROUTINE TO ROTATE RECEIVED PACKET SEQUENCE COUNT | |
| 002196 | | | 28460 | * | |
| 002197 | 074A | E842 0001 | 28470 | UCKRPS LDR R6,B2+NETFGS | CHECK IF PACKETS REMAIN TO BE CONFIRMED |
| 002198 | 074C | 6043 | 28480 | SOR R6,3 | |
| 002199 | 074D | E642 0001 | 28490 | XOR R6,B2+NETFGS | |
| 002200 | 074F | 82D6 | 28500 | LB R6,DCEPSF | ANY IN WINDOW LIT? |
| | 0750 | 0007 | | | |
| 002201 | 0751 | 8385 | 28510 | JMP B5 | RETURN I(B) TRUE IF CONFIRMATION NEEDED |
| 002202 | | | 28520 | * | |
| 002203 | 0752 | C842 0001 | 28530 | UPDRPS LDR R4,B2+NETFGS | EXAMINE DCE CONTROL BITS |
| 002204 | 0754 | E854 | 28540 | LDR R6,R4 | |
| 002205 | 0755 | 70C3 | 28550 | DOR R7,3 | MOVE MAX/COUNT DOWN |
| 002206 | 0756 | 704D | 28560 | SOR R7,16-3 | |
| 002207 | 0757 | E257 | 28570 | SUB R6,R7 | COMPUTE AMOUNT TO CONFIRM |
| 002208 | 0758 | 70C3 | 28580 | DOR R7,3 | |
| 002209 | 0759 | 704D | 28590 | SOR R7,16-3 | |
| 002210 | 075A | E854 | 28600 | LDR R6,R4 | POSITION OLD PACKET COUNT |
| 002211 | 075B | 6046 | 28610 | SOR R6,6 | |
| 002212 | 075C | EA57 | 28620 | ADD R6,R7 | |
| 002213 | | | 28630 | * | |
| 002214 | 075D | 6003 | 28640 | SOL R6,3 | STORE NEW VALUES |
| 002215 | 075E | F854 | 28650 | LDR R7,R4 | |
| 002216 | 075F | 700A | 28660 | SOL R7,16-6 | |
| 002217 | 0760 | 7083 | 28670 | DOL R7,3 | |
| 002218 | 0761 | E654 | 28680 | XOR R6,R4 | |
| 002219 | 0762 | E570 01C7 | 28690 | AND R6,=DCEPSN+DCEPSF | |
| 002220 | 0764 | C656 | 28700 | XOR R4,R6 | |
| 002221 | 0765 | CF42 0001 | 28710 | STR R4,B2+NETFGS | SAVE NEW VALUES |
| 002222 | | | 28720 | * | |
| 002223 | 0767 | D854 | 28730 | LDR R5,R4 | |
| 002224 | 0768 | D570 01C0 | 28740 | AND R5,=DCEPSN | RETURN WITH <R5> BITS 8,7,6 = CONFIRM COUNT |
| 002225 | 076A | 5041 | 28750 | SOR R5,6-5 | |
| 002226 | 076B | 8385 | 28760 | JMP B5 | |

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|--------|------|-----------|----------|--------------------------------------|-------------------------------------|
| 002227 | | | 28770 | /EJECT | |
| 002228 | | | 28780 | * | |
| 002229 | | | 28790 | *ROUTINE TO BUILD <I> MESSAGE HEADER | |
| 002230 | | | 28800 | * | |
| 002231 | 076C | ACC4 003F | 28810 | UPDSPS LDB B2,B4+NETUSR | IF WERE HUNG..DONT CONFIRM PACKETS |
| 002232 | 076E | 82C2 0001 | 28820 | LB B2+NETFGS,DTEHNG | |
| 002233 | 0770 | 4000 | | | |
| 002234 | 0771 | 0500 | T 28830 | BBT .1 | |
| 002235 | 0772 | D380 0752 | | 28840 LNJ B5,UPDRPS | ELSE UPDATE RECEIVE PACKET SEQUENCE |
| 002236 | 0774 | 0F80 | T 28850 | B .2 | |
| 002237 | 0775 | D842 0001 | 28860 * | | |
| 002238 | 0777 | D570 01C0 | 28870 .1 | LDR R5,B2+NETFGS | RETURN LAST CONFIRMATION COUNT |
| 002239 | 0779 | 5041 | 28880 | AND R5,=DCEPSN | |
| 002240 | 077A | E802 | 28890 | SOR R5,6-5 | |
| 002241 | 077B | 6E01 | 28900 * | | |
| 002242 | 077C | EF02 | 28910 .2 | LDR R6,B2 | ADD AND COMPUTE OUR PACKET COUNT |
| 002243 | | | 28920 | ADV R6,DTEPSI | ONE MORE |
| 002244 | | | 28930 | STR R6,B2 | |
| 002245 | 077D | 70C2 | 28940 * | | |
| 002246 | 077E | 704E | 28950 | DOR R7,2 | MOVE OLD COUNT AND NUMBER DOWN |
| 002247 | 077F | 88D7 | 28960 | SOR R7,16-2 | |
| 002248 | 0780 | EA57 | 28970 | DEC R7 | LESS ONE FOR OUR CURRENT MESSAGE |
| 002249 | | | 28980 | ADD R6,R7 | |
| 002250 | 0781 | 6001 | 28990 * | | |
| 002251 | 0782 | E570 000E | 29000 | SOL R6,1 | POSITION FOR COMMAND |
| 002252 | 0784 | D456 | 29010 | AND R6,'000E' | |
| 002253 | 0785 | 8386 | 29020 | OR R5,R6 | BUILD FINAL <I> COMMAND |
| | | | 29030 | JMP B6 | |

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|--------|------|-----------|-------|----------------------------------|--------------|-----------------------------------|------------------------------|
| 002254 | | | 29040 | / EJECT | | | |
| 002255 | | | 29050 | * | | | |
| 002256 | | | 29060 | * START TIMEOUT / RESPONSE CLOCK | | | |
| 002257 | | | 29070 | * | | | |
| 002258 | 0786 | FCC4 003F | 29080 | STOCLK LDB | B7,B4+NETUSR | THESE CLOCKS WORK WITH MAP BLOCK | |
| 002259 | 0788 | ABC7 0002 | 29090 | LAB | B2,B7+TOCLOK | POINT AT CLOCK BEING SET | |
| 002260 | 078A | 0F80 | T | 29100 | B .1 | | |
| 002261 | | | 29110 | * | | | |
| 002262 | 078E | FCC4 003F | 29120 | .SRRCLK LDB | B7,B4+NETUSR | THESE CLOCKS WORK WITH MAP BLOCK | |
| 002263 | 078D | ABC7 0003 | 29130 | LAB | B2,B7+RRCLOK | POINT AT CLOCK BEING SET | |
| 002264 | | | 29140 | * | | | |
| 002265 | 078F | 8D82 | 29150 | .1 CMN | B2 | MUST NOT BE ANOTHER CLOCK RUNNING | |
| 002266 | 0790 | 0980 08FC | 29160 | BNE | NETERR | | |
| 002267 | 0792 | 9CD5 | 29170 | LDB | B1,=B5 | SET RETURN ASIDE | |
| 002268 | 0793 | D380 0000 | X | 29180 | LNJ | ADD OUR OWN LITTLE CLOCK | |
| 002269 | 0795 | BF32 | | 29190 | STB | SAVE CLOCK ELEMENT IN MAP BLOCK | |
| 002270 | 0796 | 8381 | | 29200 | JMP | RETURN WITH CLOCK SETUP | |
| 002271 | | | 29210 | * | | | |
| 002272 | | | 29220 | * KILL TIMEOUT / RESPONSE CLOCK | | | |
| 002273 | | | 29230 | * | | | |
| 002274 | 0797 | FCC4 003F | 29240 | KTOCLK LDB | B7,B4+NETUSR | THESE CLOCKS WORK WITH MAP BLOCK | |
| 002275 | 0799 | ABC7 0002 | 29250 | LAB | B2,B7+TOCLOK | POINT AT CLOCK BEING KILLED | |
| 002276 | 079B | 0F80 | T | 29260 | B .1 | | |
| 002277 | | | 29270 | * | | | |
| 002278 | 079C | FCC4 003F | 29280 | .KRRCLK LDB | B7,B4+NETUSR | THESE CLOCKS WORK WITH MAP BLOCK | |
| 002279 | 079E | ABC7 0003 | 29290 | LAB | B2,B7+RRCLOK | POINT AT CLOCK BEING KILLED | |
| 002280 | | | 29300 | * | | | |
| 002281 | 07A0 | 9C80 08FB | 29310 | .1 LDB | B1,ZERO | LOAD AND RESET CLOCK BLOCK | |
| 002282 | 07A2 | 9E82 | 29320 | SWB | B1,B2 | | |
| 002283 | 07A3 | 8DD1 | 29330 | CMN | =B1 | WAS THERE A CLOCK | |
| 002284 | 07A4 | 0900 | T | 29340 | BE | NO | |
| 002285 | 07A5 | ECC1 0006 | | 29350 | LDB | LOAD RETURN ADDRESS | |
| 002286 | 07A7 | 8780 0000 | X | 29360 | JMP | RESET CLOCK AND RETURN | |
| 002287 | | | 29370 | * | | | |
| 002288 | 07A9 | 8383 | | 29380 | .2 JMP | B3 | RETURN WITHOUT KILLING CLOCK |
| 002289 | | | 29390 | * | | | |
| 002290 | | | 29400 | * POP TIMEOUT / RESPONSE CLOCKS | | | |
| 002291 | | | 29410 | * | | | |
| 002292 | 07AA | ABC7 0002 | 29420 | PTOCLK LAB | B2,B7+TOCLOK | POINT TO CLOCK BEING POPPED | |
| 002293 | 07AC | 0F80 | T | 29430 | B .1 | | |
| 002294 | | | 29440 | * | | | |
| 002295 | 07AD | ABC7 0003 | 29450 | .PRRCLK LAB | B2,B7+RRCLOK | POINT TO CLOCK BEING POPPED | |
| 002296 | | | 29460 | * | | | |
| 002297 | 07AF | 8D82 | 29470 | .1 CMN | B2 | CLOCK MUST NOT BE RESET | |
| 002298 | 07B0 | 0900 08FC | 29480 | BE | NETERR | CLEAR WITHOUT KILL | |
| 002299 | 07B2 | 8702 | | 29490 | CL | RESET CLOCK CELL | |
| 002300 | 07B3 | CCC7 0004 | | 29500 | LDB | RESTORE NETWORK DEVICE BLOCK | |
| 002301 | 07B5 | D847 0005 | | 29510 | LDR | R5,B7+NETADR | |
| 002302 | 07B7 | DF44 0039 | | 29520 | STR | R5,B4+ADDRSS | |
| 002303 | 07B9 | FFC4 003F | | 29530 | STB | B7,B4+NETUSR | |
| 002304 | 07BB | 8385 | | 29540 | JMP | B5 | |

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|--------|------|-----------|---|--------------------|---|
| 002305 | | 29550 | /EJECT | | |
| 002306 | | 29560 | * | | |
| 002307 | | 29570 | *ROUTINE TO CLEAR STACKED MESSAGES FOR USER | | |
| 002308 | | 29580 | * | | |
| 002309 | 07BC | 4C7F | 29590 | CLRUSR LDV R4,'7F' | BUILD FINAL ADDRESS |
| 002310 | 07BD | C544 0039 | 29600 | AND R4,B4+ADDRSS | |
| 002311 | 07BF | C404 | 29610 | OR R4,B4 | |
| 002312 | | 29620 | * | | |
| 002313 | 07C0 | ABC4 0005 | 29630 | .1 LAB B2,B4+OUTQ | FIND AND CLEAR STACKED CONTROLS |
| 002314 | 07C2 | D854 | 29640 | LDR R5,R4 | |
| 002315 | 07C3 | 0062 | 29650 | DQH | |
| 002316 | 07C4 | 0680 08FC | 29660 | BCF NETERR | HANDLE FUNNY MACHINE |
| 002317 | 07C6 | 0200 | 29670 | BL .3 | |
| 002318 | 07C7 | 0980 | 29680 | BNE .2 | PUT BACK AND CONTINUE |
| 002319 | 07C8 | BCC1 0004 | 29690 | LDB B3,B1+UWORD | GET DATA ADDRESS |
| 002320 | 07CA | BF81 | 29700 | STB B3,B1 | LINKEM |
| 002321 | 07CB | E380 0000 | 29710 | LNJ B6,FRBLKS | |
| 002322 | 07CD | OFF3 | 29720 | B .1 | |
| 002323 | | 29730 | * | | |
| 002324 | 07CE | D801 | 29740 | .2 LDR R5,B1 | PUT BLOCK BACK |
| 002325 | 07CF | 0063 | 29750 | QOH | |
| 002326 | 07D0 | 0680 08FC | 29760 | BCF NETERR | HANDLE FUNNY MACHINE |
| 002327 | | 29770 | * | | |
| 002328 | 07D2 | ABC4 003C | 29780 | .3 LAB B2,B4+CONQ | FIND CONNECT BLOCK |
| 002329 | 07D4 | D854 | 29790 | LDR R5,R4 | |
| 002330 | 07D5 | 0062 | 29800 | DQH | |
| 002331 | 07D6 | 0680 08FC | 29810 | BCF NETERR | HANDLE FUNNY MACHINE |
| 002332 | 07D8 | 0200 | 29820 | BL .5 | |
| 002333 | 07D9 | 0900 | 29830 | BE .4 | IF FOUND THEN RELEASE |
| 002334 | 07DA | D801 | 29840 | LDR R5,B1 | PUT BLOCK BACK |
| 002335 | 07DB | 0063 | 29850 | QOH | |
| 002336 | 07DC | 0680 08FC | 29860 | BCF NETERR | HANDLE FUNNY MACHINE |
| 002337 | 07DE | OFFA | 29870 | B .5 | |
| 002338 | | 29880 | * | | |
| 002339 | 07DF | BCC1 0004 | 29890 | .4 LDB B3,B1+UWORD | GET DATA ADDRESS |
| 002340 | 07E1 | BF81 | 29900 | STB B3,B1 | LINKEM |
| 002341 | 07E2 | E380 0000 | 29910 | LNJ B6,FRBLKS | |
| 002342 | | 29920 | * | | |
| 002343 | 07E4 | 8385 | 29930 | .5 JMP B5 | RETURN HAVING DELETED ALL SPECIAL STORAGE |

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|--------|------|-----------|-------|------------------------------|----------------------------|-------------------------------|
| 002344 | | | 29940 | /EJECT | | |
| 002345 | | | 29950 | * | | |
| 002346 | | | 29960 | *BUILD MAP ENTRY (FILLED IN) | | |
| 002347 | | | 29970 | * | | |
| 002348 | 07E5 | B380 0000 | X | 29980 | BLDMAP LNJ B3,GETBLK | BUILD MAP BLOCK |
| 002349 | | | 29990 | * | | |
| 002350 | 07E7 | BFC4 003F | | 30000 | BLDMPX STB B3,B4+NETUSR | SAVE AS USERS MAP |
| 002351 | 07E9 | BFA2 | | 30010 | STB B3,B2+R2 | SAVE IN MAP |
| 002352 | 07EA | 8703 | | 30020 | CL B3 | RESET NETWORK FLAGS |
| 002353 | 07EB | 8743 0001 | | 30030 | CL B3+NETFGS | |
| 002354 | 07ED | 8943 0001 | | 30040 | LBT B3+NETFGS,DCEPXX | INITIAL DCE PACKET COUNTERS |
| 002355 | 07F0 | CFC3 0004 | | 30050 | STB B4,B3+NETBLK | RETAIN NETWORK CONTROL BLOCK |
| 002356 | 07F2 | AF43 0005 | | 30060 | STR R2,B3+NETADR | RETAIN ADDRESS |
| 002357 | 07F4 | 8743 0002 | | 30070 | CL B3+TOCLOK | RESET TIMEOUT CLOCK |
| 002358 | 07F6 | 8743 0003 | | 30080 | CL B3+RRRCLOK | RESET RECEIVE RESPONSE CLOCK |
| 002359 | 07F8 | 8385 | | 30090 | JMP B5 | |
| 002360 | | | | 30100 | * | |
| 002361 | | | | 30110 | * | |
| 002362 | | | | 30120 | *RELEASE NETWORK MAP BLOCK | |
| 002363 | | | | 30130 | * | |
| 002364 | 07F9 | ACC4 000E | | 30140 | RLSMAP LDB B2,B4+NETMAP | FIND AND ZERO MAP LOCATION |
| 002365 | 07FB | 2C7F | | 30150 | LDV R2,'7F' | |
| 002366 | 07FC | A544 0039 | | 30160 | AND R2,B4+ADDRSS | |
| 002367 | 07FE | 9C80 08FB | | 30170 | LDB B1,ZERO | |
| 002368 | 0800 | 9EA2 | | 30180 | SWB B1,B2+R2 | |
| 002369 | 0801 | 8380 0000 | X | 30190 | JMP RELBLK | RELEASE AND RETURN INDIRECTLY |

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| | | | | | | |
|--------|------|-----------|-------|------------------------|----------------------|---|
| 002370 | | | 30200 | / EJECT | | |
| 002371 | | | 30210 | * | | |
| 002372 | | | 30220 | * ADD MESSAGE TO QUEUE | | |
| 002373 | | | 30230 | * | | |
| 002374 | 0803 | B380 0000 | X | 30240 | ADMSGQ LNJ B3,GETBLK | GET QUEUE ELEMENT |
| 002375 | 0805 | 9FC3 0004 | | 30250 | STB B1,B3+UWORD | SAVE BUFFER |
| 002376 | 0807 | 9F43 0007 | | 30260 | STR R1,B3+RWORD+1 | AND POINTER |
| 002377 | 0809 | FF43 0006 | | 30270 | STR R7,B3+RWORD | AND LENGTH |
| 002378 | 080B | 5C7F | | 30280 | LDV R5,'7F' | BUILD QUEUEING VALUE |
| 002379 | 080C | D544 0039 | | 30290 | AND R5,B4+ADDRSS | |
| 002380 | 080E | D404 | | 30300 | OR R5,B4 | |
| 002381 | 080F | BED1 | | 30310 | SWB B3,=B1 | |
| 002382 | 0810 | 0061 | | 30320 | QOT | ADD MESSAGE TO SUPPLIED QUEUE |
| 002383 | 0811 | 0680 08FC | | 30330 | BCF NETERR | HANDLE FUNNY MACHINE |
| 002384 | 0813 | 9ED3 | | 30340 | SWB B1,=B3 | |
| 002385 | 0814 | 8385 | | 30350 | JMP B5 | RETURN WITH MESSAGE QUEUED |
| 002386 | | | | 30360 | * | |
| 002387 | | | | 30370 | * | |
| 002388 | | | | 30380 | * BUILD MESSAGE | |
| 002389 | | | | 30390 | * | |
| 002390 | 0815 | E380 0000 | X | 30400 | BLDMRG LNJ B6,GFBBLK | PREP A CHAIN |
| 002391 | 0817 | 7C05 | | 30410 | LDV R7,HDRLEN | RETURN LENGTH OF PROTOTYPE |
| 002392 | 0818 | 87DD | | 30420 | CLH POP B1+R1 | SAVE ROOM FOR ADR |
| 002393 | 0819 | 87DD | | 30430 | CLH POP B1+R1 | SAVE ROOM FOR CMD |
| 002394 | | | | 30440 | * | |
| 002395 | 081A | 6C7F | | 30450 | LDV R6,'7F' | BUILD ADDRESS |
| 002396 | 081B | E544 0039 | | 30460 | AND R6,B4+ADDRSS | |
| 002397 | 081D | E470 1000 | | 30470 | OR R6,'1000' | TURN GENERAL ID ON |
| 002398 | 081F | 5880 | T | 30480 | BGEZ R5,.1 | IF NOTED AS DATA QUALIFIED THEN SET BIT |
| 002399 | 0820 | E470 8000 | | 30490 | OR R6,'8000' | TURN QUALIFIER BIT ON |
| 002400 | | | | 30500 | * | |
| 002401 | 0822 | EF44 0039 | | 30510 | .1 STR R6,B4+ADDRSS | SAVE FINAL ADDRESS (FOR TRACE) |
| 002402 | 0824 | 6058 | | 30520 | SCR R6,8 | STORE MSB OF ADDRESS |
| 002403 | 0825 | E7DD | | 30530 | STH R6,POP B1+R1 | |
| 002404 | 0826 | 6058 | | 30540 | SCR R6,8 | STORE LSB OF ADDRESS |
| 002405 | 0827 | E7DD | | 30550 | STH R6,POP B1+R1 | |
| 002406 | 0828 | D7DD | | 30560 | STH R5,POP B1+R1 | SAVE NETWORK COMMAND |
| 002407 | 0829 | DF44 003A | | 30570 | STR R5,B4+COMMAND | SAVE COMMAND (FOR TRACE) |
| 002408 | 082B | 8385 | | 30580 | JMP B5 | |

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|--------|----------------|-------|---|------------------|---|---|
| 002409 | | 30590 | / EJECT | | | |
| 002410 | | 30600 | * | | | |
| 002411 | | 30610 | * EVERY SLAVE PROCESS HAS TERMINATED (GO OFFLINE) | | | |
| 002412 | | 30620 | * | | | |
| 002413 | 082C 8847 0008 | 30630 | TSKOFF LBF | B7+DEVFGS,SONOFF | FORCE OFFLINE | |
| | 082E 8000 | | | | | |
| 002414 | 082F 0505 | 30640 | BBT | \$TSKCBK | CHECK IF CALLBACK REQUIRED | |
| 002415 | 0830 9CD7 | 30650 | LDB | B1,=B7 | | |
| 002416 | 0831 D380 0000 | X | 30660 | LNJ | B3,FNETBK | FREE NETWORK USER BLOCK |
| 002417 | 0833 0F8C | | 30670 | B | \$TSKXIT | THEN WAIT |
| 002418 | | 30680 | * | | | |
| 002419 | | 30690 | * | | | |
| 002420 | | 30700 | * ATTEMPT TO WAKE PROTOCOL IF WE ARE IDLED | | | |
| 002421 | | 30710 | * | | | |
| 002422 | 0834 CCC7 000F | 30720 | TSKCBK LDB | B4,B7+HOSTNT | CHECK IF NETWORK IDLE | |
| 002423 | 0836 8380 0560 | | 30730 | JMP | XNETOM | ATTEMPT TO FILL OUTPUT REQUEST (IF ANY) |
| 002424 | | 30740 | * | | | |
| 002425 | | 30750 | * | | | |
| 002426 | | 30760 | * START OUTPUT | | | |
| 002427 | | 30770 | * | | | |
| 002428 | 0838 82C7 0008 | 30780 | TSKSRO LB | B7+DEVFGS,SONOFF | ARE WE OFFLINE? | |
| | 083A 8000 | | | | | |
| 002429 | 083B 0579 | 30790 | BBT | \$TSKCBK | NO -- ATTEMPT CALLBACK | |
| 002430 | 083C CCC7 | 30800 | LDB | B4,=B7 | ADJUST REGISTERS | |
| 002431 | 083D D380 0000 | X | 30810 | LNJ | B5,DEVKOT | KILL OUTPUT |
| 002432 | | 30820 | * | | | |
| 002433 | 083F 8380 0000 | X | 30830 | TSKXIT JMP | SMCPXT | MUST NOT EXIT OURSELVES |
| 002434 | | 30840 | * | | | |
| 002435 | | 30850 | * | | | |
| 002436 | | 30860 | * STOP INPUT | | | |
| 002437 | | 30870 | * | | | |
| 002438 | 0841 82C7 0008 | 30880 | TSKSTI LB | B7+DEVFGS,SONOFF | ARE WE OFFLINE? | |
| | 0843 8000 | | | | | |
| 002439 | 0844 05FB | 30890 | BBF | \$TSKXIT | YES -- SIMPLY IGNORE | |
| 002440 | 0845 CCC7 | 30900 | LDB | B4,=B7 | ADJUST REGISTERS | |
| 002441 | 0846 D380 0000 | X | 30910 | LNJ | B5,DVKINP | RESET INPUT AND QUEUE RETURN |
| 002442 | | 30920 | * | | | |
| 002443 | 0848 FCD4 | 30930 | LDB | B7,=B4 | ADJUST REGISTERS | |
| 002444 | 0849 2C7F | 30940 | LDV | R2,'7F' | RESET HUNG STATE IF IT EXISTS | |
| 002445 | 084A A504 | 30950 | AND | R2,B4 | | |
| 002446 | 084B CCC4 000F | 30960 | LDB | B4,B4+HOSTNT | RESTORE NETWORK BLOCK | |
| 002447 | 084D ACC4 000E | | 30970 | LDB | B2,B4+NETMAP | |
| 002448 | 084F ACA2 | | 30980 | LDB | B2,B2+R2 | USE USERS MAP |
| 002449 | 0850 8842 0001 | | 30990 | LBF | B2+NETFGS,DTEHNG | FREE HANG |
| | 0852 4000 | | | | | |
| 002450 | 0853 0561 | | 31000 | BBT | \$TSKCBK | CALL BACK IF HUNG |
| 002451 | 0854 0FEB | | 31010 | B | \$TSKXIT | ELSE JUST WAIT |

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002452 31020 /EJECT
002453 31030 *
002454 31040 *PROCESS MODE SETTINGS FOR X25 NETWORK USERS
002455 31050 *
002456 31060 * <R3> = MODE COMMAND
002457 31070 * <R6> = MODE SETTING
002458 31080 *
002459 0855 8380 083F 31090 NETMDS JMP TSKXIT FOR NOW JUST IGNORE THEM

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| | | | | | |
|--------|------|-----------|---------|--|--|
| 002460 | | | 31100 | /EJECT | |
| 002461 | | | 31110 | * | |
| 002462 | | | 31120 | *ROUTINE TO CREATE AN OUTBOUND CONNECTION ON A NETWORK | |
| 002463 | | | 31130 | * | |
| 002464 | 0857 | 3C10 | 31140 | NETSET LDV R3,NETBKL | ASSUME WE WILL SUCCEED...GET SOME MEMORY |
| 002465 | 0853 | B380 0000 | X | 31150 LNJ B3,GETMEM | |
| 002466 | 085A | 83C5 0000 | | 31160 JMP B5+0 | IF NO MEMORY THEN RETURN IMMEDIATELY |
| 002467 | 085C | ECD3 | | 31170 LDB B6,=B3 | SAVE DEVICE BLOCK ASIDE |
| 002468 | 085D | B380 0000 | X | 31180 LNJ B3,GETBLK | HAVE MAP ENTRY READY |
| 002469 | 085F | DF86 | | 31190 STB B5,B6 | SAVE USERS RETURN |
| 002470 | 0860 | 8D43 0006 | | 31200 SDI B3+NTINFO | SAVE CONNECT INFORMATION |
| 002471 | | | 31210 * | | |
| 002472 | 0862 | 8E70 0083 | | 31220 LEV =\$LVDIS+HANGLV | FREEZE WHILE WE FIND PORT TO CONNECT TO |
| 002473 | 0864 | E855 | | 31230 LDR R6,R5 | SAVE PORT ADDRESS ASIDE |
| 002474 | 0865 | AB80 0900 | | 31240 LAB B2,NETQ | LOOK UP PORT IN NETWORK QUEUE |
| 002475 | 0867 | 0062 | | 31250 DQH | |
| 002476 | 0868 | 0680 08FC | | 31260 BCF NETERR | HANDLE FUNNY MACHINE |
| 002477 | 086A | 0200 | T | 31270 BL .2 | |
| 002478 | 086B | D801 | | 31280 LDR R5,B1 | PUT NETWORK BLOCK BACK |
| 002479 | 086C | 0063 | | 31290 QOH | |
| 002480 | 086D | 0680 08FC | | 31300 BCF NETERR | HANDLE FUNNY MACHINE |
| 002481 | 086F | D956 | | 31310 CMR R5,R6 | DID WE MATCH |
| 002482 | 0870 | 09FA | T | 31320 BNE .2 | |
| 002483 | | | 31330 * | | |
| 002484 | 0871 | 82C1 0008 | | 31340 LB B1+DEVFGS,SONOFF | ARE WE AN ONLINE JOBBY |
| | 0873 | 8000 | | | |
| 002485 | 0874 | 05FC | T | 31350 BBF .2 | NOPE |
| 002486 | 0875 | 82C1 0011 | | 31360 LB B1+PFLAGS,X25PCL | MUST BE X25 STYLE PROTOCOL |
| | 0877 | 0200 | | | |
| 002487 | 0878 | 05FC | T | 31370 BBF .2 | AREN'T |
| 002488 | 0879 | CCD1 | | 31380 LDB B4,=B1 | WORK AS IF WE WERE NETWORK |
| 002489 | 087A | ACC4 000E | | 31390 LDB B2,B4+NETMAP | HAVE MAP HANDY |
| 002490 | | | 31400 * | | |
| 002491 | 087C | 8752 | | 31410 CL R2 | ASSUME WE ARE OUTBOUND NETWORK |
| 002492 | 087D | E870 0080 | | 31420 LDR R6,=128 | STOP AFTER HIGHEST NUMBERED PORT |
| 002493 | 087F | 7C01 | | 31430 LDV R7,1 | INCREASE EACH TIME |
| 002494 | 0880 | 82C4 0011 | | 31440 LB B4+PFLAGS,DCEDTE | ARE WE INFACt AN OUTBOUND NETWORK? |
| | 0882 | 0004 | | | |
| 002495 | 0883 | 0500 | T | 31450 BBT .1 | YES -- START IN |
| 002496 | 0884 | AE56 | | 31460 SWR R2,R6 | SWAP STARTING..ENDING POINTS |
| 002497 | 0885 | 8257 | | 31470 NEG R7 | REVERSE DIRECTION |
| 002498 | | | 31480 * | | |
| 002499 | 0886 | AA57 | | 31490 .1 ADD R2,R7 | CHECK NEXT |
| 002500 | 0887 | A956 | | 31500 CMR R2,R6 | STOPPING POINT? |
| 002501 | 0888 | 0970 | T | 31510 BE .2 | YES -- NO SLOTS LEFT TO FILL |
| 002502 | 0889 | 8DA2 | | 31520 CMN B2+R2 | ANY USER AT THIS SPOT |
| 002503 | 088A | 09FC | T | 31530 BNE .1 | YES -- TRY AGAIN |
| 002504 | | | 31540 * | | |
| 002505 | 088B | AF44 0039 | | 31550 STR R2,B4+ADDRSS | SAVE STOPPING SLOT |
| 002506 | 088D | D380 07E7 | | 31560 LNJ B5,BLDMPX | FINISH BUILDING MPX |
| 002507 | 088F | 8903 | | 31570 LBT B3,X\$WTG+RSPPND | ATTEMPT CONNECTION |
| | 0890 | 3000 | | | |

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| | | | | | | | |
|--------|------|-----------|---|--------------|-----|-------------------------|------------------------------------|
| 002508 | 0891 | BCD6 | | 31580 | LDB | B3,=B6 | NOW PREPARE NETWORK DEVICE BLOCK |
| 002509 | 0892 | EC83 | | 31590 | LDB | B6,B3 | RESTORE USERS RETURN |
| 002510 | 0893 | 9B80 08AB | X | 31600 | LAB | B1,NDPTSK | USE SPECIAL NODEPOINT TASKS |
| 002511 | 0895 | D380 0000 | | 31610 | LNJ | B5,NETCNX | PREPARE NETWORK CONNECT BLOCK |
| 002512 | 0897 | 8380 08FC | | 31620 | JMP | NETERR | HANDLE ERRONEOUS RETURN |
| 002513 | | | | 31630 * | | | |
| 002514 | 0899 | 8944 0008 | | 31640 | LBT | B4+DEVFGS,SONOFF+DCRDTA | START ONLINE -- DISCARDING DATA |
| | 0898 | 8040 | | | | | |
| 002515 | 089C | 8E70 803F | | 31650 | LEV | =\$LVEXI | RETURN TO USERS LEVEL |
| 002516 | 089E | 83C6 0002 | | 31660 | JMP | B6+2 | RETURN WITH NETWORK PROCESSING |
| 002517 | | | | 31670 * | | | |
| 002518 | 08A0 | 8E70 803F | | 31680 .2 | LEV | =\$LVEXI | RETURN TO USERS LEVEL |
| 002519 | 08A2 | 9CD3 | | 31690 | LDB | B1,=B3 | RELEASE PROPOSED NETWORK MAP BLOCK |
| 002520 | 08A3 | B380 0000 | X | 31700 | LNJ | B3,RELBLK | |
| 002521 | 08A5 | 9CD6 | | 31710 | LDB | B1,=B6 | RELEASE NETWORK DEVICE BLOCK |
| 002522 | 08A6 | A8C1 0016 | | 31720 | LAB | B2,B1+NETBKL+7-1 | |
| 002523 | 08A8 | B380 0000 | X | 31730 | LNJ | B3,RELMEM | |
| 002524 | 08AA | 8385 | | 31740 | JMP | B5 | GIVE UNSUCCESSFUL SETUP RETURN |
| 002525 | | | | 31750 * | | | |
| 002526 | 08AB | 0030 | | 31760 NDPTSK | DC | NETLEV | LEVEL TO RETURN X25 VIRTUALS TO |
| 002527 | 08AC | 0838 | | 31770 | DC | <TSKSRO | START OUTPUT |
| 002528 | 08AD | 0000 | | 31780 | DC | Z'0000' | START INPUT (IGNORED) |
| 002529 | 08AE | 0841 | | 31790 | DC | <TSKSTI | STOP INPUT (AND COME UNHUNG) |
| 002530 | 08AF | 082C | | 31800 | DC | <TSKOFF | LAST PROCESS CLEARED -- DISCONNECT |
| 002531 | 08B0 | 0834 | | 31810 | DC | <TSKCBK | MODES -- INVOKE CALLBACK |

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| | | | | | |
|--------|------|-----------|---------|---|---------------------------------|
| 002532 | | | 31820 | / EJECT | |
| 002533 | | | 31830 | * | |
| 002534 | | | 31840 | * NETWORK ONLINE CHECK | |
| 002535 | | | 31850 | * | |
| 002536 | | | 31860 | * THIS ROUTINE IS CALLED BY SLAVE PROCESS WHICH WISHES TO | |
| 002537 | | | 31870 | * ASCERTAIN STATUS OF NETWORK CONNECTION. | |
| 002538 | | | 31880 | * | |
| 002539 | | | 31890 | * IF DEVICE IS ONLINE AND IN INFORMATION TRANSFER STATE WE RETURN | |
| 002540 | | | 31900 | * +1 ELSE WE RETURN (+0) | |
| 002541 | | | 31910 | * | |
| 002542 | 08B1 | CC87 | 31920 | NETONL LDB B4,B7 | LOAD DEVICE BLOCK |
| 002543 | 08B2 | 2C7F | 31930 | LDV R2,'7F' | CREATE INDICIE |
| 002544 | 08B3 | A504 | 31940 | AND R2,B4 | |
| 002545 | 08B4 | 8E70 0083 | 31950 | LEV =\$LVDIS+HANGLV | FREEZE WHILE WE CHECK |
| 002546 | 08B6 | 82C4 0008 | 31960 | LB B4+DEVFGS,SONOFF | ON OR OFFLINE |
| | 08B8 | 8000 | | | |
| 002547 | 08B9 | 0580 | T 31970 | BBF .1 | OFFLINE |
| 002548 | 08BA | ACC4 000F | 31980 | LDB B2,B4+HOSTNT | WORK THROUGH NETWORK BLOCK |
| 002549 | 08BC | ACC2 000E | 31990 | LDB B2,B2+NETMAP | CHECK MAP |
| 002550 | 08BE | ACA2 | 32000 | LDB B2,B2+R2 | |
| 002551 | 03BF | A802 | 32010 | LDR R2,B2 | CHECK WHICH MODE WERE IN |
| 002552 | 08C0 | A570 E000 | 32020 | AND R2,=X\$MODE | |
| 002553 | 08C2 | A970 C000 | 32030 | CMR R2,=X\$ICTX | ARE WE IN INFORMATION TRANSFER? |
| 002554 | 08C4 | 09F5 | T 32040 | BNE .1 | |
| 002555 | 08C5 | 8E70 803F | 32050 | LEV =\$LVEXI | RETURN TO USERS LEVEL |
| 002556 | 08C7 | 83C5 0001 | 32060 | JMP B5+1 | USE ONLINE RETURN |
| 002557 | | | 32070 | * | |
| 002558 | 08C9 | DC85 | 32080 | .1 LDB B5,B5 | WAKE PROTOCOL AS WE EXIT |
| 002559 | 08CA | 0FAB | 32090 | B \$NETRTN | |

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|--------|----------------|-------|--|----------------------|-----------------------------|
| 002560 | | 32100 | /EJECT | | |
| 002561 | | 32110 | * | | |
| 002562 | | 32120 | *THIS ROUTINE WILL RESET THE HANG FLAG AND GENERATE A CALLBACK | | |
| 002563 | | 32130 | * | | |
| 002564 | | 32140 | *THE SLAVE INVOKES THIS ROUTINE INHIBITED..WE RETURN UNINHIBITED | | |
| 002565 | | 32150 | * | | |
| 002566 | 08CB CC87 | 32160 | NETRDY | LDB B4,B7 | WORK WITH DEVICE BLOCK |
| 002567 | 08CC 82C4 0008 | 32170 | | LB B4+DEVFGS,SONOFF | ON/OFFLINE |
| | 08CE 8000 | | | | |
| 002568 | 08CF 058C | 32180 | | BBF \$NETRTX | OFFLINE -- NOTHING TO DO |
| 002569 | 08D0 2C7F | 32190 | | LDV R2,'7F' | CREATE INDICIE |
| 002570 | 08D1 A504 | 32200 | | AND R2,B4 | |
| 002571 | 08D2 ACC4 000F | 32210 | | LDB B2,B4+HOSTNT | WORK THROUGH NETWORK BLOCK |
| 002572 | 08D4 ACC2 000E | 32220 | | LDB B2,B2+NETMAP | CHECK MAP |
| 002573 | 08D6 ACA2 | 32230 | | LDB B2,B2+R2 | |
| 002574 | 08D7 8842 0001 | 32240 | | LBF B2+NETFGS,DTEHNG | NO LONGER HUNG |
| | 08D9 4000 | | | | |
| 002575 | 08DA 051B | 32250 | | BBT \$NETRTN | IF WE WERE HUNG -- WAKE PCL |
| 002576 | | 32260 | * | | |
| 002577 | 08DB 8E70 803F | 32270 | NETRTX | LEV =\$LVEXI | RETURN TO USERS LEVEL |
| 002578 | 08DD 8385 | 32280 | | JMP B5 | RETURN TO CALLER |

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| | | | | |
|--------|------|-----------|---|--|
| 002579 | | 32290 | / EJECT | |
| 002580 | | 32300 | * | |
| 002581 | | 32310 | * GENERATE BREAK TO NETWORK | |
| 002582 | | 32320 | * | |
| 002583 | | 32330 | * THIS ROUTINE IS CALLED WHEN THE NODE POINT DEVICE HAS | |
| 002584 | | 32340 | * CAUSED A BREAK TO BE DETECTED. WE MUST FORWARD THIS INFORMATION | |
| 002585 | | 32350 | * ONTO THE REMOTE END OF THE CONNECTION. | |
| 002586 | | 32360 | * | |
| 002587 | | 32370 | * THIS ROUTINE MUST NOT BE CALLED UNTIL CONNECTION ESTABLISHED | |
| 002588 | | 32380 | * | |
| 002589 | 08DE | CC87 | 32390 | NETBRK LDB B4,B7 LOAD DEVICE BLOCK |
| 002590 | 08DF | 2C7F | 32400 | LDV R2,'7F' CREATE INDICIE |
| 002591 | 08E0 | A504 | 32410 | AND R2,B4 |
| 002592 | 08E1 | 8E70 0083 | 32420 | LEV =\$LVDIS+HANGLV FREEZE WHILE WE CHECK |
| 002593 | 08E3 | 82C4 0008 | 32430 | LB B4+DEVFGS,SONOFF ON OR OFFLINE |
| | 08E5 | 8000 | | |
| 002594 | 08E6 | 05F5 | 32440 | BBF \$NETRTX OFFLINE |
| 002595 | 08E7 | 8944 0008 | 32450 | LBT B4+DEVFGS,BRKACT IS BREAK STILL ACTIVE (UNCONFIRMED) |
| | 08E9 | 0080 | | |
| 002596 | 08EA | 0571 | 32460 | BBT \$NETRTX YES |
| 002597 | 08EB | 8944 0008 | 32470 | LBT B4+DEVFGS,DCRDTA DISCARD DATA UNTIL BREAK RESOLVED |
| | 08ED | 0040 | | |
| 002598 | | 32480 | * | |
| 002599 | 08EE | ACC4 000F | 32490 | LDB B2,B4+HOSTNT WORK THROUGH NETWORK BLOCK |
| 002600 | 08F0 | ACC2 000E | 32500 | LDB B2,B2+NETMAP CHECK MAP |
| 002601 | 08F2 | ACA2 | 32510 | LDB B2,B2+R2 |
| 002602 | 08F3 | 8902 | 32520 | LBT B2,RSPOND INVOKE A RESPONSE |
| | 08F4 | 1000 | | |
| 002603 | | 32530 | * | |
| 002604 | 08F5 | 8E70 803F | 32540 | .NETRTN LEV =\$LVEXI RETURN TO USERS LEVEL |
| 002605 | 08F7 | 8756 | 32550 | CL R6 SUBMIT A MODE TO INVOKE CALLBACK |
| 002606 | 08F8 | E380 0000 | X | 32560 LNJ B6,DEVMDS |
| 002607 | 08F^ | 8385 | | 32570 JMP B5 RETURN TO CALLER |

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| | | | | | |
|--------|------------------|-------|-------------------|---|--|
| 002608 | | 32580 | /EJECT | | |
| 002609 | | 32590 | * | | |
| 002610 | | 32600 | *STORAGE, ETC. | | |
| 002611 | | 32610 | * | | |
| 002612 | 08FB 0000 | 32620 | ZERO DC Z'0000' | FOR MANIPULATORS | |
| 002613 | | 32630 | * | | |
| 002614 | 08FC 8C00 0000 X | 32640 | NETERR STS SERROR | SAVE LEVER WHERE CRASH OCCURRED | |
| 002615 | 08FE 8E70 0000 | 32650 | LEV =\$LVDIE | CRASH | |
| 002616 | | 32660 | * | | |
| 002617 | 0900 0000 | 32670 | NETQ DC Z'0000' | NETWORK DEVICE QUEUE | |
| 002618 | 0901 0900 | 32680 | DC <NETQ | | |
| 002619 | 0902 0900 | 32690 | DC <NETQ | | |
| 002620 | | 32700 | * | | |
| 002621 | 0906 | 32710 | NETXIV EQU \$+3 | | |
| 002622 | 0903 0000 | 32720 | RESV 3,Z'0000' | MMU,RFU,TSAP | |
| 002623 | 0906 0000 | 32730 | DC Z'0000' | DEVICE | |
| 002624 | 0907 FFFF | 32740 | DC Z'FFFF' | SAVE ALL REGISTERS | |
| 002625 | 0908 0000 | 32750 | DC Z'0000' | NOTHING SAVED FROM 2ND SET OF REGISTERS | |
| 002626 | 0909 0000 X | 32760 | DC <SMCPXT | START BY WAITING | |
| 002627 | 090A 6000 | 32770 | DC \$SRGP3 | PRIORITY | |
| 002628 | 090B 0000 | 32780 | RESV 16,Z'0000' | ROOM FOR REGISTERS | |

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| | | | | |
|-----------------------|---|-------|-------------------------|---------------------------------------|
| 002629 | | 32790 | /EJECT | |
| 002630 | | 32800 | * | |
| 002631 | | 32810 | *INITIALIZATION ROUTINE | |
| 002632 | | 32820 | * | |
| 002633 091B BB80 0906 | X | 32830 | INITNT LAB B3,NETXIV | PREP INTERRUPT VECTOR |
| 002634 091D BE80 0030 | | 32840 | SWB B3,\$IVECT+NETLEV | |
| 002635 091F 8003 | | 32850 | CMN =B3 | STILL A VIRGIN |
| 002636 0920 0980 08FC | | 32860 | BNE NETERR | NO |
| 002637 0922 3C30 | | 32870 | LDV R3,NETLEV | SET UP PACKET NETWORK LEVEL FOR TASKS |
| 002638 0923 9CD6 | | 32880 | LDB B1,=B6 | |
| 002639 0924 8380 0000 | X | 32890 | JMP ASNTSK | SET TASKS...RETURN INDIRECT |

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```
002640          99990 /EJECT
002641          99991 *
002642          99992 * FORCE ALL MODULES TO BE OMOD8 IN LENGTH
002643          99993 *
002644      0929  99994 E$ENDR EQU $-S$NETX+3
002645  0926  0000  99995 RESV ((E$ENDR+7)/8)*8-E$ENDR,Z'0000'
002646
002647  092D  4E45  99996 *
002648  092E  5458  99997 DC 'NETX'           MNEUMONIC NAME OF MODULE
002649  092F  0000  99998 E$NETX DC <S$NETX  START OF ROUTINE
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| | | 1917 | 1922 | 1930 | 1938 | 1939 | 1982 | 1987 | 2035 | 2042 | 2044 | 2067 | 2072 | 2074 | 2085 | 2095 | 2100 | 2127 | 2166 | 2169 |
| | | 2172 | 2174 | 2175 | 2179 | 2182 | 2184 | 2188 | 2201 | 2226 | 2234 | 2242 | 2248 | 2254 | 2263 | 2289 | 2295 | 2308 | 2311 | 2441 |

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| N \$INMBA | 36 | | | | | | |
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| N \$IOLD0 | 51 | | | | | | |
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| \$L | 1952 | 1958 | | | | | |
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 N \$OCCTL 33
 N \$OTCTL 30
 \$P 1989 1984

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| | | 1006 | 1007 | 1009 | 1010 | 1011 | 1012 | 1017 | 1022 | 1027 | 1032 | 1033 | 1034 | 1201 | 1202 | 1205 | 1207 | 1215 | 1227 | 1229 |
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| | | 1377 | 1378 | 1380 | 1382 | 1383 | 1395 | 1396 | 1398 | 1399 | 1404 | 1408 | 1409 | 1410 | 1411 | 1412 | 1413 | 1498 | 1499 | 1500 |
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| CKOUTQ | 364 | 1756 | | | | | | | | | | | | | | | | | | | |
| CKRPS | 1358 | 1420 | 1424 | 1432 | | | | | | | | | | | | | | | | | |
| CKSPS | 1394 | 1441 | | | | | | | | | | | | | | | | | | | |
| CLKPRC | 572 | 1147 | 1176 | | | | | | | | | | | | | | | | | | |
| CLKVAL | 420 | 421 | | | | | | | | | | | | | | | | | | | |
| CLOUDQ | 364 | 741 | | | | | | | | | | | | | | | | | | | |
| CLRDC | 1142 | 1185 | 1286 | 1310 | 1346 | | | | | | | | | | | | | | | | |
| CLRDTE | 1153 | 1148 | 1242 | 1607 | | | | | | | | | | | | | | | | | |
| CLRERR | 1150 | 1055 | 1187 | 1192 | 1208 | 1213 | 1220 | 1287 | 1308 | 1326 | 1335 | 1342 | 1343 | 1344 | 1345 | 1347 | 1348 | 1349 | 1368 | 1397 | |
| | | 1414 | 1520 | 1525 | 1535 | 1536 | 1538 | 1539 | 1540 | 1542 | 1545 | 1547 | 1548 | 1554 | 1557 | 1566 | 1597 | 1600 | 1637 | 1670 | |
| | | 1707 | 1712 | | | | | | | | | | | | | | | | | | |
| CLRN | 766 | 733 | 760 | 1108 | | | | | | | | | | | | | | | | | |
| CLRUSR | 2309 | 797 | 1160 | 1909 | | | | | | | | | | | | | | | | | |
| CLRXIT | 1176 | 1163 | | | | | | | | | | | | | | | | | | | |
| CMDRLS | 1089 | 1050 | 1058 | 1098 | 1109 | 1116 | 1177 | 1280 | 1302 | 1427 | 1443 | 1448 | 1450 | 1454 | 1476 | 1489 | 1588 | 1602 | 1616 | 1635 | |
| | | 1664 | 1675 | 1701 | 1710 | | | | | | | | | | | | | | | | |
| CNSLEV | 305 | 306 | | | | | | | | | | | | | | | | | | | |
| COMAND | 557 | 561 | 990 | 1027 | 1039 | 1358 | 1412 | 2119 | 2178 | 2407 | | | | | | | | | | | |
| CONQ | 562 | 563 | 891 | 1197 | 2328 | | | | | | | | | | | | | | | | |
| CPARAM | 1590 | 1576 | 1591 | | | | | | | | | | | | | | | | | | |
| CPARML | 1591 | 1578 | 1585 | | | | | | | | | | | | | | | | | | |
| N CPLRLV | 302 | | | | | | | | | | | | | | | | | | | | |
| N CPUOCH | 55 | | | | | | | | | | | | | | | | | | | | |
| CRQMGL | 2107 | 1191 | 1218 | 2070 | | | | | | | | | | | | | | | | | |
| CRQMSG | 2106 | 2069 | | | | | | | | | | | | | | | | | | | |
| N CTLMOD | 502 | | | | | | | | | | | | | | | | | | | | |
| CURBUF | 317 | 318 | | | | | | | | | | | | | | | | | | | |
| CURLEN | 318 | 319 | 1500 | | | | | | | | | | | | | | | | | | |
| N DATAOK | 515 | | | | | | | | | | | | | | | | | | | | |
| N DBGLEV | 308 | | | | | | | | | | | | | | | | | | | | |
| DCECLR | 1307 | 1075 | | | | | | | | | | | | | | | | | | | |
| DCEDTE | 496 | 2494 | | | | | | | | | | | | | | | | | | | |
| DCEMSG | 1488 | 1452 | | | | | | | | | | | | | | | | | | | |
| DCEPSF | 622 | 1396 | 2200 | 2219 | | | | | | | | | | | | | | | | | |
| DCEPSI | 623 | 1398 | | | | | | | | | | | | | | | | | | | |
| DCEPSN | 620 | 2219 | 2224 | 2238 | | | | | | | | | | | | | | | | | |
| N DCEPSX | 621 | | | | | | | | | | | | | | | | | | | | |
| DCEPXX | 625 | 2354 | | | | | | | | | | | | | | | | | | | |
| DCEQMG | 1542 | 1530 | | | | | | | | | | | | | | | | | | | |
| DCERC | 1083 | 1047 | | | | | | | | | | | | | | | | | | | |
| DCERI | 1097 | 1045 | | | | | | | | | | | | | | | | | | | |
| DCERNR | 606 | 1421 | 1425 | 1925 | 2004 | | | | | | | | | | | | | | | | |
| DCEWTG | 1285 | 1073 | 1267 | | | | | | | | | | | | | | | | | | |
| DCRDTA | 575 | 1449 | 1601 | 1627 | 1678 | 2514 | 2597 | | | | | | | | | | | | | | |
| DEVBKL | 403 | 408 | | | | | | | | | | | | | | | | | | | |
| DEVFGS | 395 | 396 | 694 | 698 | 826 | 962 | 1049 | 1057 | 1083 | 1086 | 1097 | 1099 | 1105 | 1123 | 1125 | 1126 | 1147 | 1176 | 1447 | 1449 | |

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| | | | | | | | | |
|---|---------|------|------|------|------|------|------|------|
| | IBFMAX | 415 | 416 | 915 | | | | |
| | ICCBCT | 434 | 435 | | | | | |
| | ICCBST | 435 | 436 | | | | | |
| | ICTLBK | 400 | 401 | | | | | |
| | ICTLCD | 437 | 438 | | | | | |
| N | IDLCLK | 522 | | | | | | |
| | IDLECT | 483 | 824 | 1793 | 1801 | 1813 | | |
| | IERRCT | 438 | 440 | | | | | |
| N | IFINAL | 326 | | | | | | |
| N | IGNDEL | 348 | | | | | | |
| N | IGNENQ | 346 | | | | | | |
| N | IGNLFD | 347 | | | | | | |
| N | IGNLTL | 341 | | | | | | |
| N | IGNNSB | 342 | | | | | | |
| N | IGNRLF | 581 | | | | | | |
| N | IGNULL | 349 | | | | | | |
| | IMSGCB | 432 | 434 | | | | | |
| | IMSGFB | 425 | 426 | 743 | 873 | 929 | 941 | 965 |
| | IMSGFP | 426 | 427 | 874 | 930 | 942 | 966 | 979 |
| | IMSGLB | 427 | 428 | 875 | 931 | 944 | 952 | 967 |
| | IMSGLP | 428 | 429 | 876 | 933 | 945 | 953 | 969 |
| | IMSGMB | 429 | 430 | | | | | |
| | IMSGML | 430 | 431 | | | | | |
| | IMSGNB | 431 | 432 | | | | | |
| | INFTRX | 1315 | 1076 | 1077 | | | | |
| N | INHUNG | 482 | | | | | | |
| | INITNT | 2633 | 354 | | | | | |
| N | INOTWT | 582 | | | | | | |
| | INPLEV | 398 | 399 | 1488 | | | | |
| | INPMAX | 334 | 335 | | | | | |
| | INPMMSG | 399 | 400 | 566 | 1493 | 1495 | 1505 | |
| | ITXIC | 1706 | 1351 | | | | | |
| | ITXII | 1669 | 1350 | | | | | |
| | ITXRNP | 1424 | 1334 | | | | | |
| | ITXRR | 1420 | 1333 | | | | | |
| | IXDATA | 1432 | 1315 | | | | | |
| | IXDTE2 | 1471 | 1469 | | | | | |
| | IXDTE3 | 1474 | 1458 | | | | | |
| | KILCLK | 372 | 1137 | 2286 | | | | |
| | KRRCLK | 2278 | 799 | 1157 | 1880 | 1911 | | |
| | KTOCLK | 2274 | 798 | 1156 | 1272 | 1299 | 1371 | 1910 |
| N | LDNMOD | 490 | | | | | | |
| N | LDSMOD | 494 | | | | | | |
| N | LINKUP | 469 | | | | | | |
| | LPTR | 62 | 886 | 890 | 894 | | | |
| N | LRSMOD | 493 | | | | | | |
| | LSTUSR | 555 | 556 | 828 | 1837 | 1841 | 2191 | |
| N | LSUMOD | 491 | | | | | | |
| N | LTLONG | 325 | | | | | | |
| N | LUPMOD | 492 | | | | | | |
| | M\$CURB | 386 | 917 | | | | | |
| N | MBACKG | 543 | | | | | | |

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| | |
|----------|--|
| N MCPLEV | 300 |
| N MDABRT | 538 |
| MFLAGS | 320 1503 |
| MGCHAR | 376 1019 1024 1029 1734 2170 2175 2180 |
| MGCHNL | 375 715 806 833 898 |
| MGCOPY | 375 1722 1725 2074 |
| MGHEX | 376 1018 1023 1035 1727 2169 2174 2186 |
| MGHEXH | 376 1028 1742 2179 |
| MGSEND | 375 1037 1746 2188 |
| MGSTRT | 375 1015 1719 2166 |
| MONNET | 375 1007 1012 2158 2163 |
| MOTHER | 421 422 852 1792 |
| MSGBUF | 550 551 982 1464 1496 1516 1736 1739 1933 1945 1978 2112 2129 |
| MSGHDR | 561 562 973 981 1090 1195 1932 1991 |
| MSGLEN | 552 554 983 1032 1139 1219 1462 1498 1518 1726 1732 1741 1935 1947 1980 1986 1992 2113 2130 2143 2183 |
| N MSGLEV | 307 |
| MSGPTR | 551 552 1001 1196 1461 1501 1517 1730 1737 1740 1934 1946 1979 |
| NDPTSK | 2526 2510 |
| NERMGL | 1749 1721 |
| NERMSG | 1748 1720 1749 |
| NETADR | 592 2301 2356 |
| NETBKL | 410 415 2464 2522 |
| NETBLK | 591 2300 2355 |
| NETBRK | 2589 358 |
| NETCHK | 382 1162 1275 1442 1674 1709 1882 |
| NETCNX | 382 2511 |
| NETCON | 382 1241 |
| NETERR | 2614 710 711 772 861 976 1071 1078 1127 1165 1166 1276 1806 1903 1904 2011 2024 2056 2063 2266 2298 2316 2326 2331 2336 2383 2476 2480 2512 2636 |
| NETFGS | 588 1159 1395 1399 1408 1434 1436 1481 1509 1860 1862 1865 1873 1875 1879 2037 2197 2199 2203 2221 2232 2237 2353 2354 2449 2574 |
| NETINP | 330 1504 |
| NETLEV | 303 697 926 1762 2526 2634 2637 |
| NETMAP | 565 730 735 758 791 871 1042 1848 2364 2447 2489 2549 2572 2600 |
| NETMDS | 2459 360 |
| NETMPL | 647 736 863 |
| NETONL | 2542 358 |
| NETQ | 2617 703 859 2474 2618 2619 |
| NETRDY | 2566 358 |
| NETRTN | 2604 2559 2575 |
| NETRTX | 2577 2568 2594 2596 |
| NETSET | 2464 358 |
| NETUSR | 563 796 800 1063 1142 1143 1153 1154 1158 1238 1258 1268 1269 1273 1274 1296 1360 1378 1394 1421 1425 1433 1451 1453 1508 1528 1562 1656 1669 1671 1706 1852 1907 1912 1913 1925 1949 2004 2034 2050 2078 2079 2116 2231 2258 2262 2274 2278 2303 2350 |
| NETXIV | 2621 2633 |
| NSBERR | 319 320 1502 |
| NTCNMG | 906 899 907 |
| NTCNML | 907 900 |
| NTDSMG | 723 716 724 |
| NTDSML | 724 717 |

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NTIGNM 1114 986 994 996 998
NTINFO 593 1239 1563 1564 1657 2470

NTLDMG 814 807 815
NTLDML 315 808
NTLUMG 909 834 910
NTLUML 910 835

N NXTACK 545
OCCBCT 449 450
OCCBST 450 451
OCTLCD 451 452
OERRCT 452 454
OFLTSK 466 1894
OMSGCB 442 443
OMSGCP 443 444
OMSGFB 440 441 745 878 1769 1774
OMSGFP 441 442 879 1770 1775
OMSGLB 444 445 880 1777 1783 2137 2147
OMSGLP 445 446 881 1778 1784 2138 2148
OMSGMB 446 447
OMSGML 447 448
ONESEC 311 1385 1438 1829 2066 2084 2126

OTPURE 579 1962
N OTWAIT 580
OUROWN 605 1274 1451 1528 1669 1706 1907 1949
OUTLEN 401 403 565
OUTQ 394 395 887 1255 1586 1661 1698 1921 2007 2313
P\$DSOT 677 685 686 1599 1621

N P\$LFID 678
N P\$MARK 674
P\$RSPD 679 683 1556 1645 1654
P\$SBRK 676 684 1619

N P\$TIMR 675
PBYTEG 370 1581
PBYTXG 370 1953 1971
PCLFGS 413 419
PFLAGS 416 418 695 823 825 1793 1801 1813 2486 2494

N PM\$BRK 684
PM\$DSO 686 1691
PM\$ENO 685 1683
PM\$RSP 683 1249
PNTERM 1719 1106 1114 1150

N POLSNT 525
N PRMPOL 526
N PRMREJ 531
N PRMRNR 533
N PRMSND 523
PRRCLK 2295 1482
PTOCLK 2292 1146
PWORDG 369 947 949 951 1780 1782 2141 2144
Q\$CMAX 669 1524
N Q\$FLAW 666
Q\$IBRK 664 1713

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| | | | | | | | | | |
|---|---------|------|------|------|------|------|------|------|------|
| | Q\$IDSC | 662 | 1918 | | | | | | |
| | Q\$PRMS | 661 | 1652 | | | | | | |
| | Q\$RDPM | 665 | 1247 | | | | | | |
| N | Q\$SRPM | 667 | | | | | | | |
| | Q\$STPM | 663 | 1573 | 1682 | 1689 | | | | |
| | QLFMSG | 1515 | 1445 | | | | | | |
| | QMFLSH | 576 | 1568 | 1678 | 1927 | 2028 | | | |
| | QMSGC1 | 1607 | 1543 | | | | | | |
| | QMSGC2 | 1612 | 1544 | | | | | | |
| | QMSGC3 | 1642 | 1546 | | | | | | |
| | QMSGT1 | 1553 | 1534 | | | | | | |
| | QMSGT2 | 1596 | 1537 | | | | | | |
| N | RCVMOD | 503 | | | | | | | |
| | REINIT | 1121 | 1135 | 1830 | | | | | |
| N | REJSNT | 530 | | | | | | | |
| | RELBLK | 368 | 801 | 2018 | 2369 | 2520 | | | |
| | RELMEM | 368 | 737 | 750 | 2523 | | | | |
| | RLSMAP | 2364 | 1300 | 2089 | | | | | |
| | RNRCLK | 1481 | 1437 | | | | | | |
| N | RNRNSNT | 532 | | | | | | | |
| | RNTCLK | 566 | 1122 | 1134 | 1833 | | | | |
| | RRCLOK | 590 | 2263 | 2279 | 2295 | 2358 | | | |
| | RSPND1 | 2065 | 2057 | | | | | | |
| | RSPND2 | 2078 | 2058 | | | | | | |
| | RSPND3 | 2083 | 2059 | | | | | | |
| | RSPND4 | 2089 | 2060 | | | | | | |
| | RSPND5 | 2093 | 2061 | | | | | | |
| | RSPND6 | 2098 | 2062 | | | | | | |
| | RSPNDA | 2095 | 1827 | 2081 | 2091 | | | | |
| | RSPNDB | 2100 | 1835 | 2087 | | | | | |
| | RSPNDX | 2104 | 2076 | 2096 | | | | | |
| | RSPOND | 604 | 1143 | 1154 | 1258 | 1296 | 1671 | 1854 | 2507 |
| | RSPTAB | 2056 | 2053 | | | | | | |
| | RSTRNK | 1133 | 767 | 1037 | | | | | |
| | RSTRTM | 470 | 826 | 1049 | 1057 | 1086 | 1105 | 1126 | 1817 |
| | RSTRTR | 471 | 1086 | 1097 | 1823 | 1826 | | | |
| | RSTRTX | 472 | 1083 | 1086 | 1099 | 1125 | 1819 | 1826 | |
| N | RTCLEV | 298 | | | | | | | |
| N | RUNRCV | 516 | | | | | | | |
| N | RUNXMT | 517 | | | | | | | |
| | RWORD | 68 | 2015 | 2285 | 2376 | 2377 | | | |
| | S\$NETX | 3 | 2644 | 2648 | | | | | |
| N | SBSCLV | 304 | | | | | | | |
| | SCMDTB | 1333 | 1320 | 1337 | | | | | |
| | SCMTBL | 1337 | 1321 | | | | | | |
| | SCNDCK | 333 | 334 | | | | | | |
| | SENDQM | 2004 | 1893 | 1895 | 1928 | | | | |
| | SENDRR | 2034 | 1926 | 2005 | 2027 | | | | |
| N | SENTTD | 540 | | | | | | | |
| | SERROR | 366 | 2614 | | | | | | |
| | SETBPT | 370 | 1225 | | | | | | |
| N | SM\$000 | 181 | | | | | | | |

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| | |
|-----------|---|
| N SM\$DL0 | 192 |
| N SM\$DL1 | 193 |
| N SM\$DL2 | 194 |
| N SM\$DL3 | 195 |
| N SM\$DL4 | 196 |
| N SM\$DL5 | 197 |
| N SM\$DL6 | 198 |
| N SM\$DL7 | 199 |
| SM\$DLY | 191 192 193 194 195 196 197 198 199 |
| N SM\$ECH | 183 |
| N SM\$E00 | 186 |
| N SM\$FRD | 187 |
| N SM\$IDY | 189 |
| N SM\$MFR | 185 |
| N SM\$OM0 | 202 |
| N SM\$OM1 | 203 |
| N SM\$OM2 | 204 |
| N SM\$OM3 | 205 |
| SM\$OMD | 201 202 203 204 205 |
| N SM\$RDO | 188 |
| N SM\$ROT | 184 |
| SMCPBL | 460 749 841 |
| SMCPXT | 364 752 963 1124 1796 1804 1811 1815 2192 2433 2626 |
| N SNDPOL | 527 |
| SNDQMX | 2002 1883 1923 |
| N SNDREJ | 528 |
| N SNDRNR | 529 |
| SNDRRX | 2042 1863 2038 |
| SOFTQ | 393 394 769 883 1900 |
| SONOFF | 465 698 826 962 1123 1447 1568 1790 1810 1892 2413 2428 2438 2484 2514 2546 2567 2593 |
| N SP2780 | 506 |
| N SP3780 | 507 |
| SPCMSG | 456 458 |
| N SPDUAL | 509 |
| N SPHASP | 508 |
| SRRCLK | 2262 1439 |
| STEMPS | 458 460 550 |
| STOCLK | 2253 1387 2067 2085 2127 |
| N STYFGS | 335 |
| SVCUSR | 554 555 829 1840 1846 2190 |
| N SWORD | 66 |
| N SX25LV | 301 |
| SYCLEV | 306 307 |
| N SYNASN | 467 |
| N SYNCRD | 477 |
| SYSCON | 384 1565 |
| TOCLOK | 589 2259 2275 2292 2357 |
| N TORCVY | 524 |
| N TRNSLT | 501 |
| N TRNSMG | 479 |
| N TRPCLK | 327 |
| TSKCBK | 2422 2414 2429 2450 2531 |

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| | | | | |
|----------|------|------|------|---------------------|
| TSKINF | 396 | 397 | 855 | 2153 |
| TSKOFF | 2413 | 2530 | | |
| TSKRET | 397 | 398 | 766 | 812 1803 |
| TSKRTE | 362 | 843 | 865 | 919 934 1785 |
| TSKRTN | 362 | 721 | 839 | 904 918 1766 1794 |
| TSKSNT | 571 | 1760 | 1814 | 2149 |
| TSKSRO | 2428 | 2527 | | |
| TSKSTI | 2438 | 2529 | | |
| TSKXIT | 2433 | 2417 | 2439 | 2451 2459 |
| N TSOVLV | 296 | | | |
| UCCRPS | 2197 | 1866 | 2035 | |
| UCMDTB | 1342 | 1316 | 1353 | |
| UCMTBL | 1353 | 1317 | | |
| N UNEDIT | 340 | | | |
| UPDRPS | 2203 | 1868 | 2042 | 2234 |
| UPDSPS | 2231 | 2114 | | |
| N USRDTA | 64 | | | |
| UWORD | 67 | 2016 | 2319 | 2339 2375 |
| N WACKNG | 542 | | | |
| N WATLEV | 299 | | | |
| N WDTLEV | 295 | | | |
| WTGCLK | 1146 | 1386 | 2065 | 2083 2125 |
| X25CMD | 454 | 455 | | |
| X25FGS | 455 | 456 | | |
| X25PCL | 484 | 2486 | | |
| X25STB | 1071 | 1068 | | |
| X25TIP | 649 | 1561 | | |
| X\$CCLR | 600 | 1143 | 1269 | |
| X\$CWTG | 598 | 1258 | | |
| X\$ICTX | 602 | 1274 | 2553 | |
| X\$ITTX | 601 | 2079 | | |
| X\$MODE | 595 | 1066 | 2051 | 2552 |
| X\$TCLR | 599 | 1154 | 1913 | |
| X\$WTG | 597 | 2507 | | |
| N XINDEL | 656 | | | |
| XINESC | 655 | 1474 | | |
| N XINNSB | 654 | | | |
| N XMTMOD | 504 | | | |
| XNETIM | 965 | 1092 | 1259 | 1472 1510 |
| XNETIN | 961 | 925 | | |
| XNETOE | 1886 | 1997 | 2029 | |
| XNETOF | 757 | 696 | | |
| XNETOL | 1840 | 1850 | 2040 | |
| XNETOM | 1813 | 970 | 1128 | 1178 1483 1807 2423 |
| XNETOR | 2050 | 1855 | 1914 | |
| XNETOT | 1809 | 1763 | | |
| XNETOW | 2112 | 1995 | 2019 | |
| XNETOX | 2136 | 1871 | 2045 | 2104 |
| XNETOY | 1801 | 1820 | 1842 | |
| XNETOZ | 1806 | 1802 | | |
| XNTCBK | 1790 | 2152 | | |
| XNTINC | 915 | 356 | | |

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N XNTINM 924
XNTOFF 729 703
XNTOFL 691 356
N XNTONL 820
N XNTOTM 1754
XNTOTX 1768 1757
ZERO 2612 794 1133 1194 2002 2281 2367
688 LABELS
2740 REFERENCES
2649 RECORDS
0 U FLAGS
83 M FLAGS
247 N FLAGS
10362 WORD CROSS REFERENCE TABLE

| | | | |
|--------|-----|-----|--------|
| ବେଳବେଳ | ବେ | ବେ | ବେଲବେଲ |
| ବେ | ବେ | ବେ | ବେ |
| ବେଲବେଲ | ବେଲ | ବେଲ | ବେଲବେଲ |
| ବେ | ବେଲ | ବେ | ବେଲ |
| ବେ | ବେ | ବେଲ | ବେଲ |
| ବେଲବେଲ | ବେ | ବେ | ବେଲବେଲ |

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