

the digital group

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In Maxi-64, the printer routine starts at 006014 and ends at 010377.

The Digital Group Printer routine is used as a sub-routine.

The Character to be printed should be loaded in the accumulator, and the print sub-routine called.

The routine saves all registers.

If you wish to use this routine with other software, its location is 006000 - 010377

FILE 060000 122017

READY

ASSEMBLY :

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006014          ST 006014 :
006014          0110 *-----
006014          0120 *
006014          0130 * THE DIGITAL GROUP PRINTER DRIVER PROGRAM
006014          0140 *      2-90 SHORT VERSION
006014          0150 *-----
006014          0160 *
006014          0170 *
006014          0180 INPORT EQU 03H :
006014          0190 OTPORT EQU 03H
006014          0200 BUFSIZ EQU 140      TEXT BUFFER SIZE :
006014          0210 *
006014          0220 * DRIVER SECTION STORES LINE IN BUFFER, IGNORING
006014          0230 * ASCII OUTSIDE GIVEN LIMITS
006014          0240 * ON C/R, VECTORS TO PRINTOUT ROUTINE
006014          0250 *
006014 345      0260 DRIVER PUSH HL      SAVE ALL REGISTERS :
006015 325      0270          PUSH DE
006016 305      0280          PUSH BC :
006017 365      0290          PUSH AF
006020 346 177  0300          AND 177 :
006022 376 015 0310          CP 015      IF CHAR IS C/R THEN PRINT LINE
006024 050 050 0320          JR Z,LINE
006026          0330 *
006026 326 040  0340          SUB 040      IF NOT, THEN CALCULATE OFFSET
006030 070 037  0350 AA      JR C,EXIT AND CHECK ASCII LIMITS
006032 306 300  0360          ADD 300 :
006034 060 007  0370          JR NC,MAYBE PLACE IN BUFFER IF LEGAL
006036 306 345  0380          ADD 345
006040 070 027  0390          JR C,EXIT      IGNORE IF NOT LEGAL
006042 326 275  0400          SUB 275      BIAS DOWN TO OFFSET
006044 107      0410          LD B,A      SET UP OFFSET IN B :
006045 326 270  0420 MAYBE SUB 270 :
006047 107      0430          LD B,A
006050 070 017 - 0440          JR C,EXIT :
006052 072 134 007 0450          LD A,(STOLN)
006055 117      0460          LD C,A :
006056 257      0470          XOR A
006057 052 135 007 0480 OK      LD HL,(TXTPT)
006062 160      0490          LD M,B      PUT OFFET IN TEXT BUFFER
006063 043      0500          INC HL
006064 042 135 007 0510          LD (TXTPT),HL RESTORE POINTER :
006067 257      0520          XOR A
006070 167      0530          LD (HL),A :
006071          0540 *
006071 361      0550 EXIT POP AF      RESTORE ALL REGISTERS
006072 301      0560          POP BC
006073 321      0570          POP DE
006074 341      0580          POP HL :
006075 311      0590          RET
006076          0600 *
006076          0610 * SET UP PRINTER FOR ONE LINE OF PRINT AND
006076          0620 * TAKE CARE OF HOUSEKEEPING (PRINT HEAD
006076          0630 * RETURN, BUFFER CLEAN-UP AND RIBBON ADVANCE)
006076          0640 *
006076 363      0650 LINE DI
006077 315 067 007 0660          CALL HOME      HEAD MUST BE IN POSITION
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| | | |
|------------------------|----------------|------------------------------------------------|
| 006102 315 060 007 | 0670 | CALL CSETUP PREPARE TO MOVE HEAD |
| 006105 315 047 007 | 0680 | CALL ACSYNC WAIT FOR A LINE 0 : |
| 006110 076 005 | 0690 | LD A,06 PRINT FWD |
| 006112 323 003 | 0700 | OUT OTPORT START HEAD |
| 006114 333 003 | 0710 LOOP1 | IN INPORT |
| 006116 313 147 | 0720 | BIT 4,A PRINT FIELD BIT : |
| 006120 040 372 | 0730 | JR NZ,LOOP1 WAIT FOR PRINT FIELD : |
| 006122 315 231 006 | 0740 | CALL PRINTR PRINT TEXT BUFFER : |
| 006125 315 060 007 | 0750 | CALL CSETUP LISTEN UP MOTORS : |
| 006130 257 | 0760 | XOR A ALL STOP |
| 006131 323 003 | 0770 | OUT OTPORT : |
| 006133 041 000 005 | 0780 | LD HL,005000 DELAY FOR MOTOR TO RESPOND |
| 006136 315 041 007 | 0790 | CALL WASTE : |
| 006141 315 067 007 | 0800 | CALL HOME RETURN THE HEAD : |
| 006144 006 140 | 0810 | LD B,BUFSIZ |
| 006146 041 236 010 | 0820 CLEAN | LD HL,TXTSZ : |
| 006151 076 010 | 0830 | LD A,010 010 EQU ASCII SPACE OFFSET |
| 006153 167 | 0840 LOOP2 | LD M,A : |
| 006154 043 | 0850 | INC HL |
| 006155 020 374 | 0860 | DJNZ LOOP2 LOAD BUFFER WITH SPACES AFTER PRINT |
| 006157 041 236 010 | 0870 | LD HL,TXTSZ : |
| 006162 257 | 0880 | XOR A |
| 006163 167 | 0890 | LD M,A : |
| 006164 042 135 007 | 0900 | LD (TXTPT),HL : |
| 006167 373 | 0910 | EI |
| 006170 315 060 007 | 0920 | CALL CSETUP : |
| 006173 257 | 0930 | XOR A |
| 006174 323 003 | 0940 | OUT OTPORT : |
| 006176 315 060 007 | 0950 | CALL CSETUP : |
| 006201 076 020 | 0960 | LD A,020 : |
| 006203 323 003 | 0970 | OUT OTPORT MOVE TYPE RIBBON ON PRINTER |
| 006205 041 017 020 | 0980 | LD HL,020017 : |
| 006210 315 041 007 | 0990 | CALL WASTE : |
| 006213 315 060 007 | 1000 | CALL CSETUP : |
| 006216 257 | 1010 | XOR A STOP MOVING TYPE RIBBON : |
| 006217 323 003 | 1020 | OUT OTPORT : |
| 006221 041 141 121 | 1030 | LD HL,121141 |
| 006224 315 041 007 | 1040 | CALL WASTE : |
| 006227 030 240 | 1050 | JR EXIT : |
| 006231 | 1060 * : | |
| 006231 | 1070 * : | SET UP EACH CHAR FOR OUTPUT |
| 006231 | 1080 * : | |
| 006231 335 041 236 010 | 1090 PRINTR LD | IX,TXTSZ PUT TXT BUF START ADR IN INDEX REG |
| 006235 | 1100 * : | |
| 006235 | 1110 * : | IX CONTAINS ADDRESS OF LETTER |
| 006235 | 1120 * : | IY CONTAINS ADDRESS OF FONT POINTER : |
| 006235 | 1130 * : | |
| 006235 072 134 007 | 1140 TXTFCH LD | A,(STOLN) : |
| 006240 117 | 1150 | LD C,A : |
| 006241 335 156 000 | 1160 | LD L,(IX+0) FONT TABLE OFFSET IN L |
| 006244 076 177 | 1170 | LD A,177 : |
| 006246 245 | 1180 | AND L MASK |
| 006247 157 | 1190 | LD L,A WIPE OUT MSB OF FONT TABLE OFFSET |
| 006250 257 | 1200 | XOR A |
| 006251 147 | 1210 | LD H,A |
| 006252 265 | 1220 | OR L TABLE DISPLACEMENT = 0 ? |
| 006253 310 | 1230 | RET Z (END OF TEXT BUFFER) : |
| 006254 006 007 | 1240 | LD B,7 |
| 006256 053 | 1250 | DEC HL |
| 006257 020 375 | 1260 | DJNZ \$-1 |
| 006261 375 041 134 007 | 1270 | LD IY,FNTSZ : |

| | | | | |
|--------|-----------------|------|--------------------------|--------------------------------------|
| 006265 | 325 | 1280 | PUSH DE | |
| 006266 | 124 | 1290 | LD D,H : | |
| 006267 | 135 | 1300 | LD E,L | |
| 006270 | 051 | 1310 | ADD HL,HL | TIMES 5 = ACTUAL ADD OF FONT OF CHAR |
| 006271 | 051 | 1320 | ADD HL,HL | |
| 006272 | 031 | 1330 | ADD HL,DE : | |
| 006273 | 321 | 1340 | POP DE | |
| 006274 | 353 | 1350 | EX DE,HL : | |
| 006275 | 375 031 | 1360 | ADD IY,DE : | FONT DISP IN IY |
| 006277 | 355 133 137 007 | 1370 | LD DE,(OETIME) : | |
| 006303 | 325 | 1380 | PUSH DE | |
| 006304 | 353 | 1390 | EX DE,HL | SET UP FOR GAP BETWEEN CHARS |
| 006305 | 051 | 1400 | ADD HL,HL | |
| 006306 | 021 357 377 | 1410 | LD DE,377357 : | |
| 006311 | 031 | 1420 | ADD HL,DE : | |
| 006312 | 042 132 007 | 1430 | LD (TEMP),HL : | |
| 006315 | 076 360 | 1440 | LD A,360 | CALCULATE SOLENOID ON TIME |
| 006317 | 241 | 1450 | AND C | A HAS INTENSITY |
| 006320 | 313 077 | 1460 | SRL A | |
| 006322 | 313 077 | 1470 | SRL A | |
| 006324 | 041 036 000 | 1480 | LD HL,000036 | |
| 006327 | 117 | 1490 | LD C,A | |
| 006330 | 006 000 | 1500 | LD B,0 | |
| 006332 | 011 | 1510 | ADD HL,BC | |
| 006333 | 321 | 1520 | POP DE | |
| 006334 | 345 | 1530 | PUSH HL | |
| 006335 | 257 | 1540 | XOR A | CALCULATE SOLENOID OFF TIME |
| 006336 | 353 | 1550 | EX DE,HL | |
| 006337 | 355 122 | 1560 | SBC HL,DE | |
| 006341 | 321 | 1570 | POP DE | DE HAS SOLENOID ON TIME : |
| 006342 | 345 | 1580 | PUSH HL | |
| 006343 | 052 132 007 | 1590 | LD HL,(TEMP) | |
| 006346 | 053 | 1600 | DEC HL | KILL A LITTLE MORE TIME : |
| 006347 | 175 | 1610 | LD A,L | |
| 006350 | 264 | 1620 | OR H | |
| 006351 | 040 373 | 1630 | JR NZ,LOOP3 | |
| 006353 | 341 | 1640 | POP HL | |
| 006354 | 016 005 | 1650 | LD C,5 | |
| 006356 | 375 106 000 | 1660 | FNTFCH LD B,(IY+00H) | SET TO PRINT A CHAR : |
| 006361 | 072 131 007 | 1670 | LD A,(DOUBLE) | IS DOUBLE PRINT ENABLED? |
| 006364 | 346 200 | 1680 | AND 200 | IF BIT 7 HIGH - YES : |
| 006366 | 304 005 007 | 1690 | CALL NZ,FONTOT | PRINT IT! |
| 006371 | 315 005 007 | 1700 | CALL FONTOT | PRINT IT! |
| 006374 | 375 043 | 1710 | INC IY | NEXT FONT IN TABLE |
| 006376 | 015 | 1720 | DEC C | ALL FONTS OUT? |
| 006377 | 040 355 | 1730 | JR NZ,FNTFCH | NO - GET NEXT FONT |
| 007001 | 335 043 | 1740 | NXTCHR INC IX | POINT TO NEXT CHAR. IN BUFFER |
| 007003 | 030 230 | 1750 | JR TXTFCH | DONE - GET NEXT CHAR : |
| 007005 | | 1760 | * | |
| 007005 | | 1770 | * SOLENOID DRIVE ROUTINE | |
| 007005 | | 1780 | * | |
| 007005 | 325 | 1790 | FONTOT PUSH DE | SAVE ON COUNT |
| 007006 | 345 | 1800 | PUSH HL | SAVE OFF COUNT |
| 007007 | 076 006 | 1810 | LD A,006 | MOTOR RUN |
| 007011 | 323 003 | 1820 | OUT OTPORT | |
| 007013 | 076 200 | 1830 | LD A,200 | SET UP STROBE |
| 007015 | 260 | 1840 | OR B | |
| 007016 | 323 003 | 1850 | OUT OTPORT | |
| 007020 | 033 | 1860 | FNTLP1 DEC DE | |
| 007021 | 172 | 1870 | LD A,D | |
| 007022 | 263 | 1880 | OR E | |

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007023 040 373      1890      JR   NZ,FNTLP1 WASTE ON TIME
007025 076 200      1900      LD   A,200
007027 323 003      1910      OUT  OTPORT
007031 053          1920 FNTLP2 DEC  HL
007032 174          1930      LD   A,H
007033 265          1940      OR   L
007034 040 373      1950      JR   NZ,FNTLP2 WASTE OFF TIME
007036 341          1960      POP  HL
007037 321          1970      POP  DE
007040 311          1980      RET
007041          1990 *
007041          2000 * THIS LOOP WASTES 9.6 X HL + 4 MICROSECONDS :
007041          2010 *
007041 053          2020 WASTE DEC  HL
007042 175          2030      LD   A,L
007043 264          2040      OR   H
007044 040 373      2050      JR   NZ,WASTE
007046 311          2060      RET
007047 365          2070 ACSYNC PUSH AF      RETURNS CONTROL AS A.C. LINE
007050 333 003      2080      IN  INPORT GOES THRU ZERO.
007052 313 137      2090      BIT  3,A
007054 050 372      2100      JR   Z,ACSYNC+1 :
007056 361          2110      POP  AF
007057 311          2120      RET
007060          2130 *
007060          2140 * :
007060          2150 * SETS UP PRINTER TO ACCEPT A FUNCT. COMMAND :
007060          2160 *
007060 365          2170 CSETUP PUSH AF      ENABLE PRINT MOVE COMMANDS :
007061 076 200      2180      LD   A,200      10000000
007063 323 003      2190      OUT  OTPORT
007065 361          2200      POP  AF
007066 311          2210      RET
007067 333 003      2220 HOME  IN  INPORT :
007071 313 147      2230      BIT  4,A      IN PRINT FIELD?
007073 300          2240      RET  NZ      IF NOT, MUST BE HOME
007074 315 060 007  2250      CALL CSETUP TALK TO MOTORS
007077 076 005      2260      LD   A,005 REVERSE COMMAND
007101 315 047 007  2270      CALL ACSYNC WAIT FOR AC LINE=0
007104 323 003      2280      OUT  OTPORT
007106 333 003      2290 HOMELP IN  INPORT
007110 313 147      2300      BIT  4,A      HOME YET?
007112 050 372      2310      JR   Z,HOMELP WAIT FOR HEAD TO COME
007114 041 025 006  2320      LD   HL,006025 T.D. FOR HOME OVERUN
007117 315 041 007  2330      CALL WASTE
007122 315 060 007  2340 HALT  CALL CSETUP PREPARE FOR A STOP
007125 257          2350      XOR  A
007126 323 003      2360      OUT  OTPORT ALL STOP
007130 311          2370      RET
007131          2380 *
007131          2390 * BUFFER AREA
007131          2400 DOUBLE DC 0 BIT 7 HIGH FOR DOUBLE PRINT :
000
007132          2410 TEMP  DC 0.0
000 000 :
007134          2420 * :
007134          2430 * FONT TABLE STARTS HERE - AS OFFSET=0 REFERS TO C/R
          2440 * THE FIRST 5 BYTES CAN BE USED FOR BUFFER AREA :
          2450 *
          2460 FNTSZ  DC 076

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|--------|-----|-----|-----|------|--------|-----|-----------------|--------------------------------|
| 007135 | | | | 2470 | STOLN | EQU | FNTSZ | |
| 007135 | | | | 2480 | TXTPT | DM | TXTSZ | ADDR EQU END OF FONT TABLE : |
| 236 | 010 | | | | | | | |
| 007137 | | | | 2490 | DOTIME | DM | 000147 | PRINT LENGTH BYTE (L S BYTE) : |
| 147 | 000 | | | | | | | |
| 007141 | | | | 2500 | | DC | 200,200,200,200 | : |
| 200 | 200 | 200 | 200 | | | | | |
| 007145 | | | | 2510 | | DC | 200 | |
| 200 | | | | | | | | |
| 007146 | | | | 2520 | | DC | 200,200,375,200 | : |
| 200 | 200 | 375 | 200 | | | | | |
| 007152 | | | | 2530 | | DC | 200 | |
| 200 | | | | | | | | |
| 007153 | | | | 2540 | | DC | 200,360,200,360 | : |
| 200 | 360 | 200 | 360 | | | | | |
| 007157 | | | | 2550 | | DC | 200 | |
| 200 | | | | | | | | |
| 007160 | | | | 2560 | | DC | 224,377,224,377 | : |
| 224 | 377 | 224 | 377 | | | | | |
| 007164 | | | | 2570 | | DC | 224 | |
| 224 | | | | | | | | |
| 007165 | | | | 2580 | | DC | 222,252,377,252 | : |
| 222 | 252 | 377 | 252 | | | | | |
| 007171 | | | | 2590 | | DC | 244 | |
| 244 | | | | | | | | |
| 007172 | | | | 2600 | | DC | 342,344,210,223 | : |
| 342 | 344 | 210 | 223 | | | | | |
| 007176 | | | | 2610 | | DC | 243 | |
| 243 | | | | | | | | |
| 007177 | | | | 2620 | | DC | 266,311,265,202 | : |
| 266 | 311 | 265 | 202 | | | | | |
| 007203 | | | | 2630 | | DC | 205 | |
| 205 | | | | | | | | |
| 007204 | | | | 2640 | | DC | 200,200,360,200 | : |
| 200 | 200 | 360 | 200 | | | | | |
| 007210 | | | | 2650 | | DC | 200 | |
| 200 | | | | | | | | |
| 007211 | | | | 2660 | | DC | 234,242,301,200 | : |
| 234 | 242 | 301 | 200 | | | | | |
| 007215 | | | | 2670 | | DC | 200 | |
| 200 | | | | | | | | |
| 007216 | | | | 2680 | | DC | 200,200,301,242 | : |
| 200 | 200 | 301 | 242 | | | | | |
| 007222 | | | | 2690 | | DC | 234 | |
| 234 | | | | | | | | |
| 007223 | | | | 2700 | * * | | | : |
| 007223 | | | | 2710 | | DC | 242,224,377,224 | : |
| 242 | 224 | 377 | 224 | | | | | |
| 007227 | | | | 2720 | | DC | 242 | |
| 242 | | | | | | | | |
| 007230 | | | | 2730 | * + | | | : |
| 007230 | | | | 2740 | | DC | 210,210,276,210 | : |
| 210 | 210 | 276 | 210 | | | | | |
| 007234 | | | | 2750 | | DC | 200 | |
| 200 | | | | | | | | |
| 007235 | | | | 2760 | * | | | : |
| 007235 | | | | 2770 | | DC | 200,201,206,200 | : |
| 200 | 201 | 206 | 200 | | | | | |
| 007241 | | | | 2780 | | DC | 200 | |
| 200 | | | | | | | | |

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|--------|-----|-----|-----|------------|----|-------------------|
| 007242 | | | | 2790 * - | | |
| 007242 | | | | 2800 | DC | 210,210,210,210 : |
| 210 | 210 | 210 | 210 | | | |
| 007246 | | | | 2810 | DC | 210 |
| 210 | | | | | | |
| 007247 | | | | 2820 * . : | | |
| 007247 | | | | 2830 | DC | 200,200,201,200 : |
| 200 | 200 | 201 | 200 | | | |
| 007253 | | | | 2840 | DC | 200 |
| 200 | | | | | | |
| 007254 | | | | 2850 * / : | | |
| 007254 | | | | 2860 | DC | 202,204,210,220 : |
| 202 | 204 | 210 | 220 | | | |
| 007260 | | | | 2870 | DC | 240 |
| 240 | | | | | | |
| 007261 | | | | 2880 * 0 | | |
| 007261 | | | | 2890 | DC | 276,305,311,321 : |
| 276 | 305 | 311 | 321 | | | |
| 007265 | | | | 2900 | DC | 276 |
| 276 | | | | | | |
| 007266 | | | | 2910 * 1 : | | |
| 007266 | | | | 2920 | DC | 200,241,377,201 : |
| 200 | 241 | 377 | 201 | | | |
| 007272 | | | | 2930 | DC | 201 |
| 201 | | | | | | |
| 007273 | | | | 2940 * 2 : | | |
| 007273 | | | | 2950 | DC | 243,305,311,311 : |
| 243 | 305 | 311 | 311 | | | |
| 007277 | | | | 2960 | DC | 261 |
| 261 | | | | | | |
| 007300 | | | | 2970 * 3 : | | |
| 007300 | | | | 2980 | DC | 302,301,311,331 : |
| 302 | 301 | 311 | 331 | | | |
| 007304 | | | | 2990 | DC | 346 |
| 346 | | | | | | |
| 007305 | | | | 3000 * 4 | | |
| 007305 | | | | 3010 | DC | 214,224,244,377 : |
| 214 | 224 | 244 | 377 | | | |
| 007311 | | | | 3020 | DC | 204 |
| 204 | | | | | | |
| 007312 | | | | 3030 * 5 : | | |
| 007312 | | | | 3040 | DC | 362,321,321,321 : |
| 362 | 321 | 321 | 321 | | | |
| 007316 | | | | 3050 | DC | 316 |
| 316 | | | | | | |
| 007317 | | | | 3060 * 6 : | | |
| 007317 | | | | 3070 | DC | 236,251,311,311 : |
| 236 | 251 | 311 | 311 | | | |
| 007323 | | | | 3080 | DC | 307 |
| 307 | | | | | | |
| 007324 | | | | 3090 * 7 : | | |
| 007324 | | | | 3100 | DC | 300,307,310,320 : |
| 300 | 307 | 310 | 320 | | | |
| 007330 | | | | 3110 | DC | 340 |
| 340 | | | | | | |
| 007331 | | | | 3120 * 8 : | | |
| 007331 | | | | 3130 | DC | 266,311,311,311 : |
| 266 | 311 | 311 | 311 | | | |
| 007335 | | | | 3140 | DC | 266 |
| 266 | | | | | | |

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|--------|-----|-----|-----|------------|-------------------------|
| 007336 | | | | 3150 * 9 | |
| 007336 | | | | 3160 | DC 261, 311, 311, 312 : |
| 261 | 311 | 311 | 312 | | |
| 007342 | | | | 3170 | DC 274 |
| 274 | | | | | |
| 007343 | | | | 3180 * : | |
| 007343 | | | | 3190 | DC 200, 200, 224, 200 : |
| 200 | 200 | 224 | 200 | | |
| 007347 | | | | 3200 | DC 200 |
| 200 | | | | | |
| 007350 | | | | 3210 * ; : | |
| 007350 | | | | 3220 | DC 200, 201, 226, 200 : |
| 200 | 201 | 226 | 200 | | |
| 007354 | | | | 3230 | DC 200 |
| 200 | | | | | |
| 007355 | | | | 3240 * < | |
| 007355 | | | | 3250 | DC 210, 224, 242, 301 : |
| 210 | 224 | 242 | 301 | | |
| 007361 | | | | 3260 | DC 200 |
| 200 | | | | | |
| 007362 | | | | 3270 * = : | |
| 007362 | | | | 3280 | DC 224, 224, 224, 224 : |
| 224 | 224 | 224 | 224 | | |
| 007366 | | | | 3290 | DC 224 |
| 224 | | | | | |
| 007367 | | | | 3300 * > | |
| 007367 | | | | 3310 | DC 200, 301, 242, 224 : |
| 200 | 301 | 242 | 224 | | |
| 007373 | | | | 3320 | DC 210 |
| 210 | | | | | |
| 007374 | | | | 3330 * ? | |
| 007374 | | | | 3340 | DC 240, 300, 315, 320 : |
| 240 | 300 | 315 | 320 | | |
| 010000 | | | | 3350 | DC 240 |
| 240 | | | | | |
| 010001 | | | | 3360 * 0 | |
| 010001 | | | | 3370 | DC 276, 301, 335, 315 : |
| 276 | 301 | 335 | 315 | | |
| 010005 | | | | 3380 | DC 237 |
| 237 | | | | | |
| 010006 | | | | 3390 * A | |
| 010006 | | | | 3400 | DC 237, 244, 304, 244 : |
| 237 | 244 | 304 | 244 | | |
| 010012 | | | | 3410 | DC 237 |
| 237 | | | | | |
| 010013 | | | | 3420 * B : | |
| 010013 | | | | 3430 | DC 377, 311, 311, 311 : |
| 377 | 311 | 311 | 311 | | |
| 010017 | | | | 3440 | DC 266 |
| 266 | | | | | |
| 010020 | | | | 3450 * C : | |
| 010020 | | | | 3460 | DC 276, 301, 301, 201 : |
| 276 | 301 | 301 | 201 | | |
| 010024 | | | | 3470 | DC 343 |
| 343 | | | | | |
| 010025 | | | | 3480 * D : | |
| 010025 | | | | 3490 | DC 377, 301, 301, 301 : |
| 377 | 301 | 301 | 301 | | |
| 010031 | | | | 3500 | DC 276 |
| 276 | | | | | |

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|--------|-----|-----|-----|------------|-------------------------|
| 010032 | | | | 3510 * E : | |
| 010032 | | | | 3520 | DC 377, 311, 311, 311 : |
| 377 | 311 | 311 | 311 | | |
| 010036 | | | | 3530 | DC 301 |
| 301 | | | | | |
| 010037 | | | | 3540 * F : | |
| 010037 | | | | 3550 | DC 377, 310, 310, 310 : |
| 377 | 310 | 310 | 310 | | |
| 010043 | | | | 3560 | DC 300 |
| 300 | | | | | |
| 010044 | | | | 3570 * G | |
| 010044 | | | | 3580 | DC 276, 301, 301, 305 |
| 276 | 301 | 301 | 305 | | |
| 010050 | | | | 3590 | DC 307 |
| 307 | | | | | |
| 010051 | | | | 3600 * H : | |
| 010051 | | | | 3610 | DC 377, 210, 210, 210 : |
| 377 | 210 | 210 | 210 | | |
| 010055 | | | | 3620 | DC 377 |
| 377 | | | | | |
| 010056 | | | | 3630 * I | |
| 010056 | | | | 3640 | DC 200, 301, 377, 301 : |
| 200 | 301 | 377 | 301 | | |
| 010062 | | | | 3650 | DC 200 |
| 200 | | | | | |
| 010063 | | | | 3660 * J : | |
| 010063 | | | | 3670 | DC 202, 201, 201, 201 : |
| 202 | 201 | 201 | 201 | | |
| 010067 | | | | 3680 | DC 376 |
| 376 | | | | | |
| 010070 | | | | 3690 * K | |
| 010070 | | | | 3700 | DC 377, 210, 224, 242 |
| 377 | 210 | 224 | 242 | | |
| 010074 | | | | 3710 | DC 301 |
| 301 | | | | | |
| 010075 | | | | 3720 * L | |
| 010075 | | | | 3730 | DC 377, 201, 201, 201 |
| 377 | 201 | 201 | 201 | | |
| 010101 | | | | 3740 | DC 201 |
| 201 | | | | | |
| 010102 | | | | 3750 * M | |
| 010102 | | | | 3760 | DC 377, 240, 230, 240 : |
| 377 | 240 | 230 | 240 | | |
| 010106 | | | | 3770 | DC 377 |
| 377 | | | | | |
| 010107 | | | | 3780 * N : | |
| 010107 | | | | 3790 | DC 377, 220, 210, 204 : |
| 377 | 220 | 210 | 204 | | |
| 010113 | | | | 3800 | DC 377 |
| 377 | | | | | |
| 010114 | | | | 3810 * O | |
| 010114 | | | | 3820 | DC 276, 301, 301, 301 : |
| 276 | 301 | 301 | 301 | | |
| 010120 | | | | 3830 | DC 276 |
| 276 | | | | | |
| 010121 | | | | 3840 * P | |
| 010121 | | | | 3850 | DC 377, 310, 310, 310 : |
| 377 | 310 | 310 | 310 | | |
| 010125 | | | | 3860 | DC 260 |
| 260 | | | | | |

| | | | | | |
|--------|-----|-----|-----|------------|-------------------------|
| 010126 | | | | 3870 * Q : | |
| 010126 | | | | 3880 | DC 276, 301, 305, 302 : |
| 276 | 301 | 305 | 302 | | |
| 010132 | | | | 3890 | DC 275 |
| 275 | | | | | |
| 010133 | | | | 3900 * R | |
| 010133 | | | | 3910 | DC 377, 310, 314, 312 : |
| 377 | 310 | 314 | 312 | | |
| 010137 | | | | 3920 | DC 261 |
| 261 | | | | | |
| 010140 | | | | 3930 * S | |
| 010140 | | | | 3940 | DC 262, 311, 311, 301 |
| 262 | 311 | 311 | 301 | | |
| 010144 | | | | 3950 | DC 246 |
| 246 | | | | | |
| 010145 | | | | 3960 * T | |
| 010145 | | | | 3970 | DC 300, 300, 377, 300 |
| 300 | 300 | 377 | 300 | | |
| 010151 | | | | 3980 | DC 300 |
| 300 | | | | | |
| 010152 | | | | 3990 * U : | |
| 010152 | | | | 4000 | DC 376, 201, 201, 201 : |
| 376 | 201 | 201 | 201 | | |
| 010156 | | | | 4010 | DC 376 |
| 376 | | | | | |
| 010157 | | | | 4020 * U | |
| 010157 | | | | 4030 | DC 374, 202, 201, 202 : |
| 374 | 202 | 201 | 202 | | |
| 010163 | | | | 4040 | DC 374 |
| 374 | | | | | |
| 010164 | | | | 4050 * W | |
| 010164 | | | | 4060 | DC 377, 202, 214, 202 |
| 377 | 202 | 214 | 202 | | |
| 010170 | | | | 4070 | DC 377 |
| 377 | | | | | |
| 010171 | | | | 4080 * X | |
| 010171 | | | | 4090 | DC 343, 224, 210, 224 |
| 343 | 224 | 210 | 224 | | |
| 010175 | | | | 4100 | DC 343 |
| 343 | | | | | |
| 010176 | | | | 4110 * Y | |
| 010176 | | | | 4120 | DC 340, 220, 217, 220 |
| 340 | 220 | 217 | 220 | | |
| 010202 | | | | 4130 | DC 340 |
| 340 | | | | | |
| 010203 | | | | 4140 * Z | |
| 010203 | | | | 4150 | DC 303, 305, 311, 321 |
| 303 | 305 | 311 | 321 | | |
| 010207 | | | | 4160 | DC 341 |
| 341 | | | | | |
| 010210 | | | | 4170 * | |
| 010210 | | | | 4180 | DC 377, 377, 301, 301 : |
| 377 | 377 | 301 | 301 | | |
| 010214 | | | | 4190 | DC 301 |
| 301 | | | | | |
| 010215 | | | | 4200 * | |
| 010215 | | | | 4210 | DC 240, 220, 210, 204 : |
| 240 | 220 | 210 | 204 | | |
| 010221 | | | | 4220 | DC 202 |
| 202 | | | | | |

| | | | | | |
|--------|-----|--------|-------|-----|----------------------|
| 010222 | | 4230 * | | | |
| 010222 | | 4240 | DC | • | 301, 301, 301, 377 |
| 301 | 301 | 377 | | | |
| 010226 | | 4250 | DC | | 377 |
| 377 | | | | | |
| 010227 | | 4260 * | | | |
| 010227 | | 4270 | DC | | 220 240 377, 240 |
| 220 | | | | | |
| 010230 | | 4280 | DC | | 220 |
| 220 | | | | | |
| 010231 | | 4290 * | | | |
| 010231 | | 4300 | DC | | 210, 234, 210, 210 : |
| 210 | 234 | 210 | | | |
| 010235 | | 4310 | DC | | 210 |
| 210 | | | | | |
| 010236 | | 4320 | TXTSZ | DS | 140 |
| 010376 | 000 | 4330 | ZZZZ | NOP | |

NO ERRORS FOUND :

FILE 060000 122017

READY

LTABL

| | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|
| AA | 006030 | ACSYNC | 007047 | BUFSIZ | 000140 | CLEAN | 006146 |
| CSETUP | 007060 | DOTIME | 007137 | DOUBLE | 007131 | DRIVER | 006014 |
| EXIT | 006071 | FNTFCH | 006356 | FNTLP1 | 007020 | FNTLP2 | 007031 |
| FNTSZ | 007134 | FONTOT | 007005 | GAPCP | 006304 | HALT | 007122 |
| HOME | 007067 | HOMELP | 007106 | INPORT | 000003 | LINE | 006076 |
| LOOP1 | 006114 | LOOP2 | 006153 | LOOP3 | 006346 | MAYBE | 006045 |
| NXTCHR | 007001 | OFFCP | 006335 | OK | 006057 | ONCP | 006315 |
| OTPORT | 000003 | PRINTR | 006231 | STDLN | 007134 | TEMP | 007132 |
| TXTFCH | 006235 | TXTPT | 007135 | TXTSZ | 010236 | WASTE | 007041 |
| ZZZZ | 010376 | | | | | | |

FILE 060000 122017

READY