```
DIST30 - TYPE 30 DISPLAY SERVICE ROUTINES MACRO.V36 19:04 4-JUN-69 PAGE 1
1
    |###COPYRIGHT 1969, DIGITAL EQUIPMENT CORP.. MAYNARD, MASS.***
    ;THIS SUR-PROGRAM ASSEMBLED WITH SYSTEM PARAMETER FILE - S.MAC(V414)
        *LIST
        LIST
    PARAMETER FILE FOR DISSER,MAC
    ;USED ONLY TO ASSEMBLE DISSER TO MAKE TYPE 3@ SERVICE INSTEAD OF TYPE 34.*
    |OQD|1 T30=1 ;FLAF THAT TYPE 30 IS WANTED
```

```
OIST30 - TYPE 3D DISDLAY SERVICE ROUTINES MACRD.V36 19:04 4-JUN-69 PAGE 14
IFNOEF T30,\langleT30=0>:ASSUME TYFE 30 DISPLAY IF T30 IS UNDEFINED
IFN T30.<
TITLE DIST3E - TYPE 30 DISPLAY SERVICE ROUTINES
ENTRY DIST30
015T30:
>
IFE TSO.<
TITLE DIS340 - TYPE 34% DISPLAY SERVICE ROUTINES
ENTRY DIS340
71S340:
>
SUBTTL R. GRUEN/RCC TS OJ JUN 69 VOD4
XP VDISSR,DO4*
;PUT VERSION NUMEER IN GLOB LISTXNG AND LOADER STORAGE MAP
; CHANNEL, THEY SEARCH THE COMMANO POINTER LIST SUPPLIEDAY DATA
CHANNEL, THEY SEARCH THE COMMANO POINTER LIST SUPPLIEO
ALL OUTPUT IS DONE USING THE BLKO COMMAND.
    the format of the commano pointer list is as follows:
RH=\varnothing END OF COMMAND POINTER LIST
RH=ADR LH=\varnothing ADR IS ADDRESS OF THE NEXT SECTION OF THE
RH=L-1 LH=-V OUMMAND POINTER LIST 
    REGINNING AT LOCATION L.
; NOTE THAT THE CHECK FOR ENO OF LIST IS MADE FIRST,
; ALL ADDRESSES ARE CHECKEO FOR VALIDITY (I,E., THEY MUST
; BE WITHIN USER AREA) BEFORE ANY MEM REF IS MADE.
;IF THE T3A SWITCH=1 THIS IS THE ROUTINE FOR A DEC
;TYPE 30 DISPLAY WITH A TYPE 348 INTERFACEE,
;OTHFRWISE IT IS THE ROUTINE FOR A DEC TYPE 34@,
```



```
INTERNAL FTCHETK,FTMONP
IFN FICHECK+FTMONP,<
FXTERNAL DISNOR,OISIOS,PFNLOC,DISPNT,DISBKO,OISHI,DISONE,DISAV,OFFOIS
EXTERNAL DISAVI,DISRFL,DISCON,TISNXT
INTERNAL DISNV1
>
IFE FTCHFCK+FTMONP,<
OIS DEVICE PATA BLOCK
    INTERN DISODB
A00020 445163 000000 DISDOH: SIXEIT IDISI
00日021 000074 00x0日0 + NWN -D60#HUNGST,m
200002 T00020 0000,0 DISIOS: 
002003 0000F0 000024' EXP DISDSP
```



```
0.0005 व00020 ø00000
```




```
\0,
```



```
#ดดØ12 a日QDaC ODODOD PENLOC:
Д0日013 -00090 0020,0 JISPNT: O
```



```
ODQ014 #000月0 0000月0 OISHI: O
MO2015 बDOD%D ODDDOD DISONE: #
```




```
OISREL: XWD = TAC,A
IFE T3O.<
OISCON: EXD ONOIS>
IFN T30.<
HISCON: %>
XP PENDDR,0 ITO SATISFY A REQUEST IN COMMON.
>
; therf is not really a pen odor.
```

```
DIST?\varnothing - TYPE 3| DISPLAY SERVICE ROUTINES
        R. GRUEN/RCC TS E3 JUN 69 VDO4
        IFNTSQ,<
\0:134 71S=134
>
ODA1बQ DISTAK=10N
M0Q2名 กISWAT=2のK
200400 DISCKR=408
```



```
IFE T3@,<
DISBSY=77
    PENON=74RO
>
IFN TSO.<
0200J0 ПISBSY=20000
O1ODAD PENON=10日Q?
>
EXTERN JOBPFI
EXTERN DISSAV,DISBLK,DISJSR,PENSAV
EXTERN DISCHM,PENCHN
EXTERN OISCHL,PFNCHL
EXTERN DISSAV,DISRET
EXTERN OISPON,DISPOF
EXTERN ADRERR,SETION
EXTERN PION,PIOFF,CLOCK
EXTERN CPOPJI,UERROR,USRREL,STOTAC,JOB,JATSTS,JBTADR,FJORN
IFE TSQ,< EXTERN ONDIS,NONOIS\
INTERN PENINT,DISINT,DISFIN
ENTRY OISDSP
    <
TEFINE ADRCHK(A)
CAILE A,JORPFI
CAMLE A,OISHI
JRST EXIT?
```

| O1ST30 | －TYPE <br> R．GRUE | $\begin{aligned} & 0 \text { OISPL } \\ & \text { N/RCC } \quad \end{aligned}$ | SERVICE ROUTIN Ø3 JUN 69 VOX4 |  | MACRO，V36 19：04 | 4－JUN－69 PAGE 17 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 125 | anabr2 | 2540n0 | 002043＇ | JRST | DISIN： | ：INITILIFATION |
| 126 | 902023 | 263140 | の02300 | POPJ | PDP， | IPRINT ERROR AND STOP JOA |
| 127 | 000024 | 254030 | 000051＇nIsosp： | JRST | OISSTP | IRELEASE |
| 128 | 000025 | 254000 | 000051． | JRST | DISSTP | CCLOSE |
| 129 | 90x026 | 265240 | 007000 | JSP | DAT，UERROR | i Olltput |
| 130 | 900027 | 265240 | 吅08？61 | JSP | TAT，UERROR | I INPUT |
| 131 | 000030 | 254020 | のøasma | JRST | CPOPJ1 | IENTER |
| 132 | 900031 | 254630 | $000030{ }^{\circ}$ | JRST | CPOP」1 | ILOOKUP |
| 133 | 0.00032 | $2548{ }^{\text {a }}$ \％ | 000255 | JFST | DISOUT | IDUMP OUTPUT（THAT＇S US） |
| 134 | 900033 | 2540xe | 000252＇ | JRST | OISIN | IDUMP INPUT（AS IN PEN） |
| 135 | の00034 | 263140 | ayaber | POPJ | POP， | ISETO |
| 136 | 000035 | 263140 | 000080 | popj | PDP， | ISETI |
| 137 | 900．036 | 263146 | 2090辺 | POPJ | POP， | IGETF |
| 138 | の日a037 | 2540 an | 0000．31＇ | JRST | CPOPJ1 | IRENAME |
| 139 |  | 263140 | 00anoo | POPJ | POP， | ICLOSE INPUT |
| 140 | かめの041 | 263140 | 008000 | POPJ | PDP， | IDIRECTORY CLEAR |
| 141 | 000042 | 263140 | Ø00070 | POPJ | PDP， | IMTAPE |

```
DIST30 - TYPE 30 DISPLAY SERVICE ROUTINES MACRO.V3K 19:04 4-JUN-69 PACE 18
R. GRUEN/RCC TS R3 J!N 6O VOO4
```










[^0]| OIST30 | $\begin{aligned} & \text { - TYPE } 30 \text { DISDLAY } \\ & \text { SYMBOL TABLE } \end{aligned}$ | SERVICE | ROUTINES | MACRO，V36 19：04 | 4－JUN－69 | PAGE | 25 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ADRER | 709246 |  | ADREP1 | \％0イ247＊ |  |  | ADRERR | ＊00251＇ | FXT |
| ALKLIT | त00275＇ |  | CLKFEQ | 90才2141 |  |  | CL．OCK | わDめて20． | FXT |
| Clok | $300225^{\prime}$ |  | CLOMRT | ， 0 （1224 |  |  | CPOPJ1 | 000237. | FXT |
| DAT | 入ロのジ5 | INT | DCL | anocx 1 | INT |  | DEVDAT | 人00006 | $\mathrm{INT}^{\text {T }}$ |
| O1S | かくの134 |  | TISAV | （0） $0^{\circ}$ |  |  | DISAV1 | 000017＇ |  |
| 21SBEG |  |  | ПISEKO |  |  |  | DIS日LK | $000261^{\prime}$ | FXT |
| DISBSY | 720000 |  | OISCHL | 908276＇ | $F \times T$ |  | DISCHN | $000045^{\circ}$ | FXT |
| D1SCKR | ग004かも |  | CISCON | $000021^{\prime}$ |  |  | DISDOB | の00000＇ | INT |
| DISOGP | の日0024＇ | INT | MISFIN | か0， 371 | I N T |  | DISHI | OUOU14， |  |
| DISIN | ワ00252＇ |  | 2ISIN1 | 0070541 |  |  | DISIN： | $000043^{\prime}$ |  |
| DISINT | 209064＇ | INT | risins | $909072^{\circ}$ |  |  | DISJSR | 000263＇ | FXT |
| OISNX1 | の日の170＇ |  | CISAXT | ＊ロタロフ7 |  |  | DISOFF | 000060. |  |
| DISONE | 000015＇ |  | CISOIT | ब0225 |  |  | DISPNT | －00012． |  |
| T15POF |  | EXT | CISPON | ォ0012＇ | EXT |  | DISREL | $000020^{\circ}$ |  |
| DISRET | ッタイ176＇ | EXT | CISSAV | ＊00246 | EXT |  | OISSTP | $000051^{\circ}$ |  |
| DIST30 | 90x\％ $0^{\circ}$ | INT | nISTAR | の00100 |  |  | OISUUI | 001000 |  |
| OISWAT | ง引に2？ |  | MVDIS | $0020 \% 0$ | INT |  | DVIN | 000002 | INT |
| OVLNS | 9010．2 | I V T | ovout | anool 1 | INT |  | EXITI | 000127＇ |  |
| EXIT2． | 900130， |  | FTCHEC | 900000 | INT |  | FTMONP | 000000 | INT |
| HUNGST | 20cus 1 | INT | ILUF | ADO1＊1＇ |  |  | INTCHK | $000133^{\prime}$ |  |
| INTPNT | ORQ136＇ |  | 10 | a00020 | INT |  | IOACT | 010000 | TNT |
| 105 | 「00e\％ | INT | I OW | a0anal | $I N^{\top}$ |  | ITEM | ดロめロด4 | INT |
| JBTADR | $\lambda 0^{\circ} 242^{\prime}$ | EXT | JETSTS |  | FX ${ }^{\top}$ |  | JOE | 900051． | EXT |
| JOBPFI | AkE121＇ | EXT | JS？LTT | A0ロ276＇ |  |  | NSHF | 031000 | $\mathrm{INT}^{T}$ |
| NSWP | 9106．0 | INT | OFFEIS | 2020M0 | $1 N^{\top}$ |  | OVT2 | $\cdots 0144^{\circ}$ |  |
| OVT3 |  |  | nVT4 | PDO163＇ |  |  | OVTら | のタロ165． |  |
| OVT6 | P0¢174＇ |  | POP | 000003 | $1 \mathrm{~N}^{T}$ |  | PENCHL | arab $6^{\circ}$ | FXT |
| PENCHN | フ．以の以43＇ | EXT | DEvOnB | CODOCD | $1 N^{\top}$ |  | PENINT | $200066^{\circ}$ | INT |
| PENLOC | Vnevil＇ |  | PENON | $\square 10000$ |  |  | PENSAV | 000000 | FXT |
| PIOFF | の日0216＇ | EXT | PInN | $000222^{\prime}$ | EXT |  | PJOEN | $000236^{\circ}$ | FXT |
| PROG |  | INT | SETITD | ロロの171＇ | EXT |  | SHF | 204000 | INT |
| TAC1 | G002002 | EXT | T3A | OQOUA1 000027 |  |  | TAC | のロロロの1 | INT EXT |
| UUO | apeot 4 | INT | VEISSA | OOOQO4 | EXT |  | USRREL | 000000 | FXT |



| DINI | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| OIS | 88\# | 174 | 293 | 205 | 201 | 345 | 428 | 432 |  |  |  |  |  |  |
| DISAV | 74 \# | 250 | 276 |  |  |  |  |  |  |  |  |  |  |  |
| DISAV1 | 75\# | 2.38 | 251 |  |  |  |  |  |  |  |  |  |  |  |
| O1SBEG | 308 | 320 | 337 H | 386 | 385 |  |  |  |  |  |  |  |  |  |
| OISBKO | 71\# | 2:17 | 2.37 | 257 | 4.32 |  |  |  |  |  |  |  |  |  |
| DISBLK | $1 \geqslant 5$ | 41.9 |  |  |  |  |  |  |  |  |  |  |  |  |
| DISBSY | 10も\# |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DISCHL | 107 | 280 | 433 |  |  |  |  |  |  |  |  |  |  |  |
| DISCHN | 106 | 150 |  |  |  |  |  |  |  |  |  |  |  |  |
| DISCKR | 92\# | 351 | 369 |  |  |  |  |  |  |  |  |  |  |  |
| DISCON | 81\# | 152 | 261 | 268 | 345 | $4 ? 8$ |  |  |  |  |  |  |  |  |
| DISDOE | 59 | $60 \%$ | 296 | 370 | 34.3 |  |  |  |  |  |  |  |  |  |
| DISOSH | 63 | 117 | 127\# | 392 |  |  |  |  |  |  |  |  |  |  |
| DISFIN | 116 | 179 | 276\# |  |  |  |  |  |  |  |  |  |  |  |
| DISHI | 72\# | 234 | 249 | 254 | 383 |  |  |  |  |  |  |  |  |  |
| DISIN | 134 | 399\# |  |  |  |  |  |  |  |  |  |  |  |  |
| DISIN1 | 163 | 170\# |  |  |  |  |  |  |  |  |  |  |  |  |
| DISINI | 125 | 154\# |  |  |  |  |  |  |  |  |  |  |  |  |
| DISINT | 116 | 179\# | 180 |  |  |  |  |  |  |  |  |  |  |  |
| OISIOS | 62\# | 173 | 302 | 313 | 317 | 319 | 338 | 354 | \$56 | 370 | 373 | 424 | 427 | $4<9$ |
| DISJSR | 105 | 421 |  |  |  |  |  |  |  |  |  |  |  |  |
| DISNX1 | 230\# | 267 |  |  |  |  |  |  |  |  |  |  |  |  |
| DISNXT | 228\# | 258 | 259 | 262 | 277 | 341 |  |  |  |  |  |  |  |  |
| OISOFF | 174\# | 3:0 |  |  |  |  |  |  |  |  |  |  |  |  |
| DISONE | 73\# | 339 | 425 |  |  |  |  |  |  |  |  |  |  |  |
| DISOUT | 133 | 415\# |  |  |  |  |  |  |  |  |  |  |  |  |
| CISPAT | 70\% | 230 | 231 | 346 |  |  |  |  |  |  |  |  |  |  |
| DISPAF | 189 | 176 |  |  |  |  |  |  |  |  |  |  |  |  |
| DISPON | 109 | 348 |  |  |  |  |  |  |  |  |  |  |  |  |
| DISRFL | 70\# | 27B | 236 | 250 | 384 |  |  |  |  |  |  |  |  |  |
| DISRET | 1)8 | 318 | 321 |  |  |  |  |  |  |  |  |  |  |  |
| DISSAV | 105 | 108 | 295 | 391 |  |  |  |  |  |  |  |  |  |  |
| OISSTP | 127 | 12 B | 165 \# | 345 |  |  |  |  |  |  |  |  |  |  |
| DIST3D | 1.5 | 10\% |  |  |  |  |  |  |  |  |  |  |  |  |
| DISTAR | 90\# | 3ヘ7 | 310 | 337 | 372 |  |  |  |  |  |  |  |  |  |
| DISUUI | $93 \%$ | 171. | 313 | 371 | 426 |  |  |  |  |  |  |  |  |  |
| OISWAT | $91 \%$ | 171 | 381 | 331 | 374 | 415 |  |  |  |  |  |  |  |  |
| OLK | 6\# | \% |  |  |  |  |  |  |  |  |  |  |  |  |
| DMT | 6 \# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| ONAERR | 6\# | ó |  |  |  |  |  |  |  |  |  |  |  |  |
| DOU | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| OR | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| ORL | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| ORN | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| DSER | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| DS I | 6\# | B |  |  |  |  |  |  |  |  |  |  |  |  |
| DSKRLB | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| DSO | 6* | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| DVAVAL | 6 | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| DVCDR | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| DVOIP | 6\# | S |  |  |  |  |  |  |  |  |  |  |  |  |
| DVDIRI | $6 \%$ | 15 |  |  |  |  |  |  |  |  |  |  |  |  |


| DVDIS | 6\# | 6 | 64 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| DVDSK | 6\# | 6 |  |  |  |
| DVDTA | 6\# | 6 |  |  |  |
| OVIN | 6\# | 6 | 64 |  |  |
| DVLNC | 6\# | 6 | 64 |  |  |
| DVLPT | 6\# | 6 |  |  |  |
| DVMTA | 6\# | 6 |  |  |  |
| DVOUT | 6\# | 6 | 64 |  |  |
| DVPTP | 6\# | 6 |  |  |  |
| OVPTR | 6\# | 6 |  |  |  |
| OVTTY | 6\# | 6 |  |  |  |
| ENTRA | 6\# | 6 |  |  |  |
| EXIT1 | 240 | 259\# |  |  |  |
| EXIT2 | 235 | 250 | 255 | 260\# |  |
| FBMEPR | 6\# | 6 |  |  |  |
| FNFERR | 6\# | 6 |  |  |  |
| FRGSEG | 6\# | 6 |  |  |  |
| FT2RFL | 6\# |  |  |  |  |
| FTATTA | 6\# |  |  |  |  |
| FTCHEC | 6\# | 51 | 52 | 57 | 227 |
| FTEXAM | 6\# |  |  |  |  |
| FTFINI | 6\# |  |  |  |  |
| FTGETT | 6\# |  |  |  |  |
| FTHALT | 6\# |  |  |  |  |
| FTKCT | 6\# |  |  |  |  |
| FTMONP | 6\# | 51 | 52 | 51 | 227 |
| FTPRV | 6\# |  |  |  |  |
| FTRAIO | 6\# |  |  |  |  |
| FTRCHK | 6\# |  |  |  |  |
| FTREAS | 6\# |  |  |  |  |
| FTSLEE | 6\# |  |  |  |  |
| FTTALK | 6\# |  |  |  |  |
| FTTIME | 6\# |  |  |  |  |
| FTTRAC | 6\# |  |  |  |  |
| FTTRPS | 6\# |  |  |  |  |
| FTTTYS | 6\# |  |  |  |  |
| HSAMSK | 6\# | 6 |  |  |  |
| HSAPOS | 6\# | 6 |  |  |  |
| HSASIZ | 6\# | 6 |  |  |  |
| HUNGCT | 6\# | 6 |  |  |  |
| HUNGST | 6\# | 6 | 61 |  |  |
| I | 6\# | 6 |  |  |  |
| IB | 6\# | 6 |  |  |  |
| 18UFF | 6\# | 6 |  |  |  |
| ICLOSB | 6\# | 6 |  |  |  |
| ILM | 6\# |  |  |  |  |
| ILUERR | 6\# | 6 |  |  |  |
| I LUP | 231\# | 247 |  |  | - |
| INBFS | 6\# | 6 |  |  |  |
| INITP | 6\# | 6 |  |  |  |
| INPB | 6\# | 6 |  |  |  |
| INTCHK | 242 | 265 ${ }^{\text {\% }}$ |  |  |  |
| INTPNT | 266 | 268 \# |  |  |  |


| 10 | 6\# | 6 | 415 |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| IOACT | 6\# | 6 | 172 | 314 | 416 |  |  |  |  |  |  |  |  |  |
| 10 BEG | 6\# | 6 |  |  | 16 |  |  |  |  |  |  |  |  |  |
| IOEKTL | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10807 | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 CON | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| IODEND | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| IODERR | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| IOOTER | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| IOENS | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| IOFST | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 IMPM | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| IONRCK | $6 \#$ | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| IOPAR | 6\# | - 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| IOS | 351 | 6 354 | 301 | 302 |  |  |  |  |  |  |  |  |  |  |
|  | 351 429 | 354 | 356 | 369 | $370$ | $371$ | $372$ | $373$ | $374$ | $415$ | $416$ | $\begin{aligned} & 319 \\ & 424 \end{aligned}$ | $\begin{aligned} & 3.37 \\ & 426 \end{aligned}$ | $\begin{aligned} & 338 \\ & 427 \end{aligned}$ |
| IOTENO | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| IOUSE | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 W | 6\# | 6 | 315 |  |  |  |  |  |  |  |  |  |  |  |
| IOWC | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| IPPERR | 6* | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| ITEM | 6\# | 6 | 165 | 168 | 299 | 365 | 312 | 378 | 379 |  |  |  |  |  |
| $J A C C T$ | 6\# | 6 |  |  | 2 | 38 | 312 | 378 | 379 | 381 | 382 |  |  |  |
| $J$ JFA ${ }^{\text {JR }}$ | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| JBFCTR | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| JBFPTR | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| JBTADR | 113 | 3-2 |  |  |  |  |  |  |  |  |  |  |  |  |
| JBTSTS | 113 | 168 | 305 | 312 | 379 | 381 |  |  |  |  |  |  |  |  |
| JBUF | 6\# | 6 |  |  |  | -1 |  |  |  |  |  |  |  |  |
| JDAT | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| JERR | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| JLOG | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| JNA | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| JOB | 113 | 165 |  |  |  |  |  |  |  |  |  |  |  |  |
| $J O B P F I$ | 104 | 233 | 248 | 253 |  |  |  |  |  |  |  |  |  |  |
| JRQ | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| JSQLIT | 420 | 433\# |  |  |  |  |  |  |  |  |  |  |  |  |
| JWPOS | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| JWSIZ | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| JXPN | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| ISTSN | 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LOOKQ | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| MEODLE | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| NECERR | $6 \#$ | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| NLEERR | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| NSDEAF | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| NSFERF | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| NSHF | 6\# | 6 | 166 | 298 | 377 |  |  |  |  |  |  |  |  |  |
| NSREIT | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| NSWP | 6\# | 6 | 166 |  |  |  |  |  |  |  |  |  |  |  |
| NXM | 6\# |  |  |  |  |  |  |  |  |  |  |  |  |  |
| OBIJFR | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |


| OCLOSB | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| OFFDIS | 78\# | 78 | 174 |  |  |  |  |  |  |  |  |  |  |  |
| OUTBFB | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| OUTPB | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| OVT2 | 279 | 295\# |  |  |  |  |  |  |  |  |  |  |  |  |
| OVT 3 | 309 | 313 \# |  |  |  |  |  |  |  |  |  |  |  |  |
| OVT 4 | 306 | $310 \#$ |  |  |  |  |  |  |  |  |  |  |  |  |
| OVT5 | 312\# |  |  |  |  |  |  |  |  |  |  |  |  |  |
| OVT6 | 304 | 319\# |  |  |  |  |  |  |  |  |  |  |  |  |
| PDP | 6\# | 6 | 126 | $135$ |  |  | 139 | 140 | 141 |  |  |  |  |  |
|  | 320 | 344 | 349 | 358 | $375$ | $392$ | 13 | 140 | 141 | 177 | 300 | 308 | 311 | 316 |
| PENCHL | 107 | 211 |  |  |  |  |  |  |  |  |  |  |  |  |
| PENCHN | 106 | 158 |  |  |  |  |  |  |  |  |  |  |  |  |
| PENDOB | $84 \%$ | 84 |  |  |  |  |  |  |  |  |  |  |  |  |
| PENINT | 116 | 175 | $203 \#$ | 204 | 347 | 423 |  |  |  |  |  |  |  |  |
| PENLOC | 69\# | 170 | 205 | 206 | 210 | 400 |  |  |  |  |  |  |  |  |
| PENON | 101\# | 346 | 422 |  |  |  |  |  |  |  |  |  |  |  |
| PENSAV | 105 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PI | 176 | 348 | 353 | 357 |  |  |  |  |  |  |  |  |  |  |
| PIOFF | 112 | 353 |  |  |  |  |  |  |  |  |  |  |  |  |
| PION | 112 | 357 |  |  |  |  |  |  |  |  |  |  |  |  |
| PJOBN | 113 | 299 | 378 |  |  |  |  |  |  |  |  |  |  |  |
| POV | 6\# |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PROG | 6\# | 6 | 67 |  |  |  |  |  |  |  |  |  |  |  |
| PRTERR | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| PVSPYA | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| PVSPYM | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| PVTRPS | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| RENMB | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| RUN | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| RUNABL | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| RUNMSK | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| SD | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| SETIOD | 111 | 316 |  |  |  |  |  |  |  |  |  |  |  |  |
| SHF | 6\# | 6 | 297 |  |  |  |  |  |  |  |  |  |  |  |
| SHRSEG | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| SLEVEL | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| SLICE | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| SNA | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| SPYYSEG | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| STOPIO | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| STOTAC | 113 | 401 |  |  |  |  |  |  |  |  |  |  |  |  |
| STTYB1 | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| STTYBF | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| WP | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| SWPCLR | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| YYSDEV | 6\# | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| T30 | 10\# | 12 | 13 | 18 | 78 | 80 | 87 | 95 | 99 | 114 |  |  |  |  |
|  | 239 | 243 | 264 |  |  |  | 8 | 9 | 99 | 114 | 155 | 157 | 185 | 202 |
| AC | 6\# | 6 | 76 | 158 | 159 | 160 | 161 | 162 |  |  |  |  |  |  |
|  | 207 | 208 | 209 | 210 | 230 | 231 | 233 | 234 | 166 236 | 168 237 | 171 238 | 172 240 | 173 241 | 206 |
|  | 248 | 249 | 251 | 253 | 254 | 256 | 257 | 260 | 265 | 266 | 276 | 297 298 | 241 305 | 246 |
|  | 347 | 352 | 355 | 377 | 379 | 381 | 382 | 383 | 265 384 | 266 399 | 470 | 297 418 | 305 419 | 346 |
|  |  |  |  |  |  |  |  |  |  |  |  | 410 | 429 | 420 |


|  | 421 | 422 | 423 |  |
| :--- | ---: | ---: | ---: | ---: |
| TAC1 | $6 \#$ | 6 | 339 | 340 |
| TEM | $6 \#$ | 6 |  |  |
| TRNERR | $6 \#$ | 6 |  |  |
| TTYATC | $6 \#$ | 6 |  |  |
| TTYBIU | $6 \#$ | 6 |  |  |
| TYYUSE | $6 \#$ | 6 |  |  |
| UCHN | $6 \#$ | 6 | 130 |  |
| UERROR | 113 | 129 |  |  |
| UIOMOD | $6 \#$ | 6 |  |  |
| USRMOD | $6 \#$ | 6 |  |  |
| USRREL | 113 |  |  |  |
| UUO | $6 \#$ | 6 | 417 |  |
| UWP | $6 \#$ | 6 |  |  |
| UWPOFF | $6 \#$ | 6 |  |  |
| VDISSR | $25 \#$ | 25 |  |  |
| WTMASK | $6 \#$ | 6 |  |  |


| ADRCHK | $120 \#$ | 232 | 252 |  |  |
| :--- | ---: | :--- | :--- | :--- | :--- |
| CODES | $6 \#$ |  |  |  |  |
| DISABL | $6 \#$ |  |  |  |  |
| ENABLE | $6 \#$ |  |  |  |  |
| NOSCHE | $6 \#$ |  |  |  |  |
| NOSHUF | $6 \#$ |  |  |  |  |
| QUEUES | $6 \#$ |  |  |  |  |
| SCHEDU | $6 \#$ |  |  |  |  |
| SHUFFL | $6 \#$ |  |  |  |  |
| STARTD | $6 \#$ |  | 24 | 77 | 83 |
| XP | $6 \#$ | 6 | 24 |  |  |


[^0]:    PROGRAM BREAK IS QQO?77

