

LABEL 000000000PRINTER00175100CC EX OBJECT/READ;FILE SOURCEFILE=SYMBOL/KERNEL++0000000

OBJECT /READ

SYMBOL / KERNEL

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Data Documents/Inc.

33444

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      B-5500 ESSENCE OF MCP : NOV,1968 P.E.G.
COMMENT: * TITLE: B5500/B5700 MARK XIV SYSTEM RELEASE * 00020000
          * FILE ID: SYMBOL/KERNAL TAPE ID: SYMBOL2/FILE000 * 00020110
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          * AA320206 AA386657 *; 00020119

```

```
BEGIN
```

```

DEFINE M=MEMORY #, P=PULISH #; 00040000
ARRAY DATA [+]; 00050000
DEFINE ADDRESS = M[@40] #; 00060000
DEFINE BASE = M[0] #; 00070000
DEFINE DIRECTOP= M[1] #; 00080000
DEFINE DISK = M[@41] #; 00090000
DEFINE INDX = M[@42] #; 00100000
DEFINE MODS = M[@46] #; 00110000
DEFINE NCSYS = M[@43] #; 00120000
DEFINE R = M[@44] #; 00130000
DEFINE SYSTEM = M[@45] #; 00140000
INTEGER PROCVAL = +1; 00150000

```

```

INTEGER FINDMEM; 00160000
LABEL TIMER,START,TOPCODE; 00170000

```

```
SAVE REAL PROCEDURE ECM; 00180000
```

```
BEGIN GO TO TIMER END; 00190000
```

```
SAVE REAL PROCEDURE IO (DESC); %THIS FIRES OFF THE IO 00200000
```

```
VALUE DESC; 00210000
```

```
REAL DESC; 00220000
```

```
BEGIN 00230000
```

```
DO BEGIN 00240000
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```
P((DESC),IIO); 00250000
```

```
R + EOM; 00260000
```

```
IO + R.[25:8] 00270000
```

```
END UNTIL (PROCVAL AND 5)=0; 00280000
```

```
END; 00290000
```

```
SAVE PROCEDURE DISKREED (DESC); 00300000
```

```
VALUE DESC; 00310000
```

```
REAL DESC; 00320000
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```
BEGIN STREAM(A + BASE + ADDRESS,8:=DESC.[33:15]); 00330000
```

```
BEGIN S1:=LOC A;D1:=B;DS:=8 DEC; END; 00340000
```

```
IF M[DESC].[5:1] THEN DESC.[3:5]+12;% 00345000
```

```
DO R+ IO(DESC) UNTIL R=0; 00350000
```

```
END; 00360000
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```
TOPCODE :@20: GO TO START; % FIRST CODE 00380000
```

```
TIMER :@22: P(INI);IF NOT FINDMEM THEN % TIMER 00390000
```

```
: : GO TO START; % SET UP FOR INVD ADDR 00400000
```

```
: : GO TO TIMER; % SPU 00410000
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```
:@25: GO TO TIMER; % LPA 00420000
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:@26: GO TO TIMER; % LPB 00430000
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```
:@27: P(@14,LOD,RTN); % I-U 1 COMPLETE 00440000
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```
:@30: P(@15,LOD,RTN); % I-U 2 COMPLETE 00450000
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:@31: P(@16,LOD,RTN); % I-U 3 COMPLETE 00460000
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```
:@32: P(@17,LOD,RTN); % I-U 4 COMPLETE 00470000
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```
:@34: GO TO TIMER; % DATA COMM 00480000
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```
:@36: GO TO TIMER; % DF #1 USED ON FREE ADDRESS 00490000
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:@37: GO TO TIMER; % DF #2 RETURN 00500000
```

```
:@61: GO TO START; % P1 INVD ADDRESS 00510000
```

Data Documents/Inc.

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START **: P(@100,STS); % SET STACK TO DCI 100 00530000
M[MODS := MODS + @10000] := 0; % FIND MOD TO LOAD MCP 00540000
P(INI); % CHECK FOR INVD ADDRESS 00550000
1 IF MODS GTR @70000 THEN 00560000
2 BEGIN MODS := 0; 00570000
3 GO TO START; 00580000
4 END; 00590000
5 FINDMEM := TRUE; 00600000
6 DATA + [M[ (+P(.EQM)) INX 100]] & 1023[8:38:10]; 00610000
7 DISK + DATA.[33:15]; 00620000
8 M[DISK] + @40; 00630000
9 INDX + 13; 00640000
10 IF IB (@1400040000000000 & DISK [33:33:15]) = 0 THEN 00650000
11 BEGIN 00660000
12 SYSTEM + DATA[1].[4:2]; 00670000
13 M[DISK] + @4060 & SYSTEM [30:46:2]; % CLEAR CONTENTION 00680000
14 P(IO(@1400001000000000 & DISK [33:33:15]),DEL); % BITS 00690000
15 M[DISK] + @6060 & SYSTEM [30:46:2]; % UNLOCK ADDRESSES 00700000
16 P(IO(@1400001000000000 & DISK [33:33:15]),DEL); 00710000
17 INDX + INDX + (SYSTEM * 5); 00720000
18 END; 00730000
19 M[DISK] := 0; % SET ADDRESS TO ZERO 00740000
20 DO R+IO(DISK INX @140000040100000 ) UNTIL R=0; 00750000
21 DIRECTOP := DATA [2]; 00760000
22 NOSYS := DATA [1]; 00770000
23 BASE := DATA [INDX]; 00780000
24 IF BASE LEQ DIRECTOP THEN 00790000
25 BEGIN M[@46] := @3145652143312460; % INVALID 00800000
26 M[@47] := @2124245125626260; % ADDRESS 00810000
27 M[@50] := @2646516044234737; % FOR MCP 00820000
28 P(IO(@7400000000000046),DEL); 00830000
29 DO UNTIL FALSE; 00840000
30 END; 00850000
31 % BEGIN LOADING MCP (MAX SIZE IS 4080) 00860000
32 ADDRESS + 73; 00870000
33 DISKREED (@140000047704235 OR MODS); 00880000
34 ADDRESS + 10; 00890000
35 DISKREED (@140000047700473 OR MODS); 00900000
36 ADDRESS + 0; 00910000
37 DISKREED (@140000041200017 OR MODS); 00920000
38 % END MCP LOAD 00930000
39 MODS := MODS + @40; 00940000
40 M[@15] + @0441023201004441; % CODE TO PULL MCP DOWN 00950000
41 M[@16] + @0253010453527705; % THIS MOVES 4042 WDS 00960000
42 M[@17] + @3705005101002411; 00970000
43 BASE + BASE * 2; 00980000
44 M[0] := BASE & SYSTEM [16:46:2] & (NOSYS) [14:46:2]; 00990000
45 P(1,STS,0,STF); 01000000
46 GO TO P([M[@15]]); 01010000
47 WHILE TRUE DO; 01020000
48 END OF HALT LOAD CARD..... 01030000

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LABEL 00000000PRINTEROC175100CC EX OBJECT/READ;FILE SOURCEFILE=SYMBOL/KERNEL++0000000

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