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**ENTRY POINTS**

| MKPTR | 0 |

**EXTERNAL SYMBOLS**

- OPFMCL
- PAGESW
- SEADCAP
- SYSRTH
- DF.DDSF
- MAINCL
- FR.DDS
- FC.ISEV
- IPI1ST
- TEMPS
- URITCAP
- DF.DDSL
- L.ADDS
- M.DOORN
- EC.GEWH
### CONSTRUCT POINTER BLOCK IN DDS

**NOTES:**

A) A POINTER BLOCK WITH THE DESIRED NUMBER OF POINTERS IS CREATED IN DDS

B) A POINTER BLOCK POINTER WITH ZERO DISK ADDR IS RETURNED

C) THE POINTER BLOCK IS INITIALIZED WITH POINTERS IDENTICAL TO THE PATTERN PASSED IN X2

D) THE NECESSARY NUMBER OF RECORDS ARE REMOVED, ALL AT ONCE, FROM THE DDS FREE CHAIN. THE CHAIN LEAVING THESE RECORDS IS USED TO KEEP TRACK OF THEM AS THEY ARE INITIALIZED.

E) *PR+ND5+ IS CHECKED TO SEE IF ENOUGH IS READY RESERVED. IF NOT, ADDITION DDS IS RESERVED IF ANY IS LEFT. *PR+ND5+ IS DECREMENTED BY THE APPROPRIATE AMOUNT.

**ON ENTRY:**
- X2 = PATTERN TO BE USED TO INITIALIZE POINTER PAGES
- A5 = NUMBER OF POINTERS IN NEW POINTER BLOCK
- B6 = RETURN LINK
- B6=1 = DDS FULL FAILURE RETURN

**ON EXIT:** PAGE SWITCH AND POINTER PAGES ARE IN DDS
CONSTR1

X6 = POINTER BLOCK POINTER FOR NEW POINTER BLOCK


TEMPORARIES USED: TEMPS; PAGESW: PAGESW+7

ENTRY          MKPTR

0 76550        2153
1 5140000000 X 21455
2 15646        13446
3 036000144    97464
4 15440

0 7160000000 X MKPTR1

13 10377        6357
14 0307000144

15 7160001000 X MKPTR1

27 0150000000 X 0155777767
30 030500144 + 14444
31 0605000044 + 7140000000 X
42 54450 + 304100144 + 73340
43 6155777767
44 20436        12654
45 6144000001

ENTRY          MKPTR

0 SK5           A5
1 AX5           Y5+1
2 SX5           FR,.DO$X
3 SA4           A14-15
4 LX4           A0-15
5 MK6           AX6#X4
6 BX4           Y4-X5
7 IA4           Y0-X6
8 NA6           Y5, MKPTR7
9 LB6           Y5-X4
10 SA8           T5
11 GE4VH         (MAINCL#M_ADDS)
12 BK3           X7
13 SB3           X7
14 SB4           X7+0
15 ZR            X7, MKPTR7

CHECK ON DDS RESERVATION
MMU DDS RECORDS NEEDED
IP IF NOT ENOUGH RESERVED
GET RECORDS FROM FREE DDS ADDRESSES
ADDR FOR PAGE SWITCH
PAGE SWITCH INDEX
IP IF OUTF OF DDS SPACE

FILL IN PAGE SWITCH AND GRAB PORTION OF FREE LIST

15 MKPTR1
27 MKPTR1
30 MKPTR1
31 MKPTR1
42 MKPTR2
43 MKPTR2
45 MKPTR2

MKPTR1

ME00S           Y3, TEMPS+1
SA5              Y5+1
SB5              AX5-0
ZB              Y5, MKPTR7
BK4              Y4-X6
LE              RS4,0, MKPTR2
RED0S           Y5+0
SA4              A5
ZR              Y4, MKPTR7
SX3              Y4
SB6              A6
SB5              A6+8
LK4              Z0
BX6              Y5+X4
SA4              PAGESW+84
SB4              X4+1

ADDR OF EVEN NUMBERED PTA PAGE
RECVR PTR COUNT
IP IF OUTF OF DDS SPACE
IP IF B0Y LAST PAGE
ADDR OF ODD NUMBERED PTR PAGE
PACK UP TWO PTR PAGE ADDRESSES
STORE PAGE ADDRESSES IN PAGE SW
CONSTR

142 716005000 VX MKPTR 2 449 76730

143 20730 126A7

024000000

144 7160000000 VX MKPTR SENDEV A+3 RJ SYSERR

153 0100000000 VX

0240000000 JP B6 RETURN

154 14566 7160000000 VX MKPTR BX6 -X A GETHM / (MAINCM,DSCSY)

163 37375 3333000175

164 7160000000 VX MKPTR SENDEV A+X3 I63, MKPTR

173 5140000000 VX 2455

174 20617 46645 36645

0200000000 JP MKPTR START OVER

175 10377 7140000000 VX MKPTR BK3 y7 SENDEV A+X3 JP B6=1 NO FUNNY RETURN

204 0260777776

205 43647 STORAGE USED

END

COMPASS - VER 2. 03/23/71 00:40:46. PAGE 5

CONSTRUCT POINTER BLOCK POINTER FOR NEW POINTER BLOCK DTR BLK AND +IN ECS+ FLAGS

LOOK OF PAGE SWITCH

DDS SPACE EXHAUSTED RETURN WHOLE MESS TO FREE SPACE

ATTEMPT TO RESERVE SOME MORE DDS NUM RECORDS NEEDED

IP IF NO MORE DDS

INCR FR. DDS

OUT OF DDS

END MKPTR END MKPTR END MKPTR

END 34 STATEMENTS 126 SYMBOLS 080014 INVENTED SYMBOLS

6600 ASSEMBLY 8,936 SECONDS 149 REFERENCES
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