

Declarations for PP  
\*\*\* Compilers 18/9/76

```
manifest
$m
    G = 430
5    NOTVEC = -30000
$m

global
$g
10    NumFn      : G
    StringRt    : G + 1
    CharacterRt : G + 2
    NLRt        : G + 3
    GetRt       : G + 4
15    FillProcVec : G + 5
    NormalSend  : G + 6
    SendTables  : G + 7
    DenestGets  : G + 8
$g
20
static
$s
    NameTable    = NOTVEC
    NameTableHash = NOTVEC
25    NameTableLink = NOTVEC
    NumTable     = NOTVEC
    StringTable  = NOTVEC
    GetList      = NOTVEC
    ProcVec      = NOTVEC
30    TextVec     = NOTVEC
    Stack        = NOTVEC
    StackPtr     = 0
    EndofPP      = false
    Symb         = 0
35    SaveLN      = 0
    OldLN        = 0
    OldGet       = 0
    DeclIndex    = 0
$s
40
manifest
$m
    ENDCH        = 8377
    MAXLENGTH    = 255
45    MAXCH       = 8377
    NULL         = 0

    SIZE         = 0
    PTR          = 1
50    REP         = 2
    FIRSTEL      = 3
    OFFSET       = 2

    SAVEIN       = 2
55    SAVELINENO = 3
    FILENO       = 4
    GETPRE       = 5
    GETSIZE      = 5
    GETMAX       = 30
60    GETLISTSIZE = GETMAX × GETSIZE
$m
```

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```

    §PN
      Push[Ch]
      NextCh[]
130  §PN

    PackStack[] is
    §   Stack↓0 := StackPtr
      PackString[Stack, Stack]
135  §

    ResetStack[] is StackPtr := 0

    TooBig[] = StackPtr > MAXLENGTH
140  Top[] = Stack↓StackPtr

    IsRoomforInputStream[] = (MaxVecSize[] ≥ 320)
      || ensures there is room for
145  || either BytesfromWords[InfromFile[f]]
      || or (hopefully) a LookUp

    CanStartCom[x] = (x ∧ CSC) ≠ 0

150  CanEndCom[x] = (x ∧ (CEC ∨ CEE)) ≠ 0

    CanEndExp[x] = (x ∧ CEE) ≠ 0

    MSCRt[] is
155  if CanEndExp[Symb] do Send[D0, 0]

    DecimalFn[] = NumFn[10, CAT_d]

    OctalFn[] = NumFn[8, CAT_o]
160 §m

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