

Declarations for Pass 3

*** Compilers 31/7/76

manifest GC = 430

global

\$g

```

5      Command      : GC
      Expression    : GC + 1
      LeftExpression : GC + 2
      ConstantExpression : GC + 3
      ConstOp       : GC + 4
10     Application   : GC + 5
      DealwithAss    : GC + 6
      FindName       : GC + 7
      Prec           : GC + 8
      StackOutput    : GC + 9
15     ClearStack    : GC + 10
      Addto          : GC + 11
      Subtractfrom    : GC + 12
      NormalOut      : GC + 13
      ChangeOutput   : GC + 14
20     DeleteCommand : GC + 15
      CheckScope     : GC + 16
      SetUp3b        : GC + 17
      CloseDown3b    : GC + 18
      ManFunDefinition : GC + 19
25     ManFunDefParams : GC + 20

      NormalOutput    : GC + 21
      CellOutput      : GC + 22
      OutputVec       : GC + 23
30     ShuntVec      : GC + 24
      NonRecVec       : GC + 25
      NonRecDef       : GC + 26
      PresentOutput   : GC + 27
      FHN             : GC + 28
35     LastRelExt     : GC + 29
      SSP             : GC + 30

```

\$g

manifest

40 \$m

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      BOTTOM      = 8366
      SUBEXP      = 8367

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      NORMAL      = 0

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45

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      MFAPP       = 1
      MFDEF       = 2
      CONSTANT    = 3
      IGNORE      = 4

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50

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      SIZE        = 0
      PTR         = 1
      FIRSTEL     = 2

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      SHUNTSIZE   = 50

```

55

```

      DEPTH SIZE  = 20
      STACK SIZE  = 20
      BUFFER SIZE = 200

```

\$m

60 manifest

\$m

```

UpdateSSP[T] is
    SSP := SSP + StackIncrement[T]
65
Code[Type, n] is
    §C
        ClearStack[]
        NormalOutput[2, Type, n]
70    UpdateSSP[Type]
    §C

Inst[Type] is
    §I
75    ClearStack[]
        NormalOutput[1, Type]
        UpdateSSP[Type]
    §I

80 ForHop[n] is
    §FH
        ClearStack[]
        NormalOutput[2, FORHOP, n]
    §FH
85
ForHopPt[n] is
    if n > 0 do
        §    ClearStack[]
            NormalOutput[2, FORHOPPT, n]
90    §

BackHop[n] is
    §BH
        ClearStack[]
95    NormalOutput[2, BACKHOP, n]
    §BH

BackHopPt[n] is
    §BHP
100    ClearStack[]
        NormalOutput[2, BACKHOPPT, n]
    §BHP

CondForHop[Type, n] is
105 §CFH
        ClearStack[]
        NormalOutput[3, CONDFORHOP, n, Type]
        UpdateSSP[Type]
    §CFH
110
SetLitGlobal[No, Loc, Val] is
    NormalOut[4, SETLITGLOBAL, No, Loc, Val]

SetLitStatic[No, Val] is
115    NormalOut[3, SETLITSTATIC, No, Val]

SetDSegGlobal[No, Loc, 1] is
    NormalOut[4, SETDSEGGLOBAL, No, Loc, 1]

120 SetDSegStatic[No, 1] is
    NormalOut[3, SETDSEGSTATIC, No, 1]

SetCSegGlobal[No, Loc, Id] is
    §SCG
125    ClearStack[]
        NormalOutput[4, SETCSEGGLOBAL, No, Loc, Id]

```

```

    $SCG

    SetCSegStatic[No, Id] is
130    $SCS
        ClearStack[]
        NormalOutput[3, SETCSEGSTATIC, No, Id]
    $SCS

135    SetManFun[No, Val] is
    $SMF
        ClearStack[]
        NormalOutput[3, SETMANFUN, No, Val]
    $SMF

140    LoadManFun[No, Code] is
    $LMF
        ClearStack[]
        NormalOutput[3, LOADMANFUN, No, Code]
145        UpdateSSP[RAsm]
    $LMF

    LoadStatic[Type, No] is
    $LS
150        ClearStack[]
        NormalOutput[3, LOADSTATIC, Type, No]
        UpdateSSP[Type]
    $LS

155    LoadString[No] is
    $LS
        ClearStack[]
        NormalOutput[2, LOADSTRING, No]
        UpdateSSP[Nsm]
160    $LS

    UpdateS[n] is
    $US
        ClearStack[]
165        NormalOutput[2, Ssm, n]
        SSP := n
    $US

    StartOutputMode[Mode] is
170    §    Addto[OutputVec, Mode]
        ChangeOutput[]
    §

    EndOutputMode[] is
175    §    Subtractfrom[OutputVec]
        ChangeOutput[]
    §

    StartNonRecDef[] is
180    §    NonRecDef := true
        Addto[NonRecVec, Generation[PresentLevel]]
    §

    EndNonRecDef[Old] is
185    §    Subtractfrom[NonRecVec]
        NonRecDef := Old
    §

    Top[Vec] = Vec↓(Vec↓PTR)
190    SwitchNo[] = valof

```

```

        §SWN
        SWN := SWN + 1
        resultis SWN
195    §SWN

        HopNo[] = valof
        §HN
        HN := HN + 1
200    resultis HN
        §HN

        UnusedHopNo[] = -HopNo[]

205    HopNoUsed[h] = (h ≥ 0)

        CellLength[p] = LengthField[p↓0]

        CellType[p] = p↓0
210    CellNo[p] = p↓1

        CellNo2[p] = p↓2
        §m
215

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