

Declarations for Pass 4

*** Compilers 3/7/76

```

manifest GD = 430

global
5  §g
    GenerateCode : GD
    SetUpCode    : GD + 1
    ProperVec    : GD + 2
    §g
10
static
§s
    GlobalType    = 0
    GlobalLoc     = 0
15    GlobalVal    = 0
    StaticType    = 0
    StaticLastUse = 0
    StaticVal     = 0
    MFVal         = 0
20    MFLastUse   = 0
    StringUse     = 0
    StringData    = 0
    TableData     = 0
    HopList       = 0
25    BackHopList = 0
    SwitchList    = 0
    DiagAddr      = 0
    DiagGlobNo    = 0
    DiagName      = 0
30    DiagString  = 0
    SL            = 0
    TDPtr         = 0
    DN            = 0
    Vector        = 0
35    Ptr         = 0
    BodyVec       = 0
    NIn           = 0
    CSize         = 0
    FirstCode     = 0
40    FirstWord   = 0
    LastWord      = 0
    CodeFull      = 0
    SpareByte     = 0
    SNec          = false
45    ExitNec     = false
    HopNext       = false
    HopPtNext     = false
    FnExitNext    = false
    NextSS        = UNSET
50    HopNo       = 0
    HopPtNo      = 0
    §s
manifest
55 §m
    SetUpBody[Size] is
    §    Vector := ProperVec[Size]
        BodyVec := Vector
    §
60
    SetCodePtrs[] is

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```

    §   FirstWord := BodyVec
        LastWord := BodyVec + CodeSize
        FirstCode := LastWord + 1
65    §

    AlterBody[] is
    §   BodyVec := FirstCode
        Ptr := LastWord - FirstCode + 1
70    §

    ResetBody[] is
        BodyVec := Vector

75    ReturnBody[Size] is
        ReturnVec[Vector, Size]

    CodeWord[Loc] = rv Loc
    UpdateCode[Loc, v] is rv Loc := v
80    UpdateBody[Ptr, v] is BodyVec, Ptr := v
    CopytoBody[Vec, n] is
    §   Copy[Vec, BodyVec + Ptr, n]
        Ptr := Ptr + n
    §

85    CopyStringtoBody[S] is
        CopytoBody[S, LHalf[S↓0]/2 + 1]

    TransferIntoBody[S, p, n] is
90    TransferIn[S, BodyVec + p, n]

    OutputSection[Type, n] is
    §   Write[Type]
        Write[n]
95    TransferOut[Output, BodyVec, n]
    §

    HOPSUM      = HOPIFZEsm + HOPIFNZsm
    FIRSTMEDINST = 8260
100    LASTMEDINST = 8317

    RevCondType[CT] = HOPSUM - CT

    CodePos[] = FirstCode - 1
105    NextCodePos[] = FirstCode
    LastCodePos[] = FirstCode - 2

    WordafterHop[n] = valof
    §   let l = HopList,
110    resultis l < 0 → 0, CodeWord[l]
    §

    DiagNo[] = valof
    §   DN := DN + 1
115    resultis DN
    §

§m

```
