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-- file CompilerDefs.Mesa
-- last modified by Satterthwaite, March 20, 1978 5:23 PM

DIRECTORY
  ControlDefs: FROM "controldefs",
  ErrorTabDefs: FROM "errortabdefs",
  SegmentDefs: FROM "segmentdefs",
  StreamDefs: FROM "streamdefs",
  SymDefs: FROM "symdefs",
  TreeDefs: FROM "treedefs";

CompilerDefs: DEFINITIONS =
  BEGIN

    NTableDivisions: CARDINAL = 10;      -- allocator parameter

    PassIndex: TYPE = {
      utilities,
      pass1,
      pass2,
      pass3,
      pass4,
      pass5,
      debug};

    -- compiler passes

    P1Unit: PROCEDURE [SegmentDefs.FileSegmentHandle] RETURNS [BOOLEAN];
    P2Unit: TreeDefs.TreeMap;
    P3Unit: TreeDefs.TreeMap;
    P4Unit: TreeDefs.TreeScan;
    P5module: PROCEDURE;

    -- object output

    SetObjectStamp: PROCEDURE;
    StartObjectFile: PROCEDURE [SegmentDefs.FileHandle] RETURNS [StreamDefs.StreamHandle];
    EndObjectFile: PROCEDURE [success: BOOLEAN];
    TableOut: PROCEDURE [sourceFile: STRING];

    OpenXrefJournal, CloseXrefJournal: PROCEDURE;
    AppendXrefWords: PROCEDURE [addr: POINTER, n: CARDINAL];

    nextFilePage: PROCEDURE RETURNS [CARDINAL];
    StartBCD: PROCEDURE;
    ReadBCDOffset: PROCEDURE RETURNS [CARDINAL];
    ReadBCDIndex: PROCEDURE RETURNS [StreamDefs.StreamIndex];
    AppendBCDWord: PROCEDURE [word: UNSPECIFIED];
    AppendBCDWords: PROCEDURE [addr: POINTER, n: CARDINAL];
    AppendBCDString: PROCEDURE [s: STRING];
    UpdateBCDWords: PROCEDURE [offset: CARDINAL, addr: POINTER, n: CARDINAL];
    EndBCD: PROCEDURE;

    -- string output

    OpenStringTable: PROCEDURE RETURNS [ErrorTabDefs.CSRptr];
    CloseStringTable: PROCEDURE;

    -- debugging

    PrintTree: PROCEDURE [TreeDefs.TreeLink];
    PrintBodies: PROCEDURE;
    PrintSymbols: PROCEDURE;

    -- swapping control

    MakeSwappable: PUBLIC PROCEDURE [module: PROGRAM, pass: PassIndex];

    Pass1, Pass2, Pass3, Pass4, Code: PROGRAM;

    Control: PROGRAM [
      creationTime: STRING,
      creator: UNSPECIFIED --ControlDefs.GlobalFrameHandle--,
      parseTableSeg: SegmentDefs.FileSegmentHandle,
      stringTableSeg: SegmentDefs.FileSegmentHandle];
```

END.