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-- file P1Defs.Mesa
-- last modified by Satterthwaite, January 19, 1978  1:36 PM

DIRECTORY
  StreamDefs: FROM "streamdefs",
  SymDefs: FROM "symdefs",
  LALRDefs: FROM "lalrdefs";

P1Defs: DEFINITIONS SHARES LALRDefs =
  BEGIN
    OPEN LALRDefs;

    -- implemented by Pass1
    LockId: PROCEDURE RETURNS [SymDefs.HTIndex];

    -- implemented by Scan
    Atom: PROCEDURE RETURNS [SymbolRecord];
    ErrorContext: PROCEDURE [STRING, CARDINAL];
    ResetScanIndex: PROCEDURE [CARDINAL];
    ScanInit: PROCEDURE [StreamDefs.StreamHandle, POINTER TO LALRTable];
    ScanReset: PROCEDURE RETURNS [nErrors: CARDINAL];

    -- implemented by Parse
    Parse: PROCEDURE [StreamDefs.StreamHandle, POINTER TO LALRTable]
      RETURNS [complete: BOOLEAN, nErrors: CARDINAL];
    ParserID: PROCEDURE RETURNS [STRING];
    InputLoc: PROCEDURE RETURNS [CARDINAL];

    -- implemented by Pass1T
    AssignDescriptors: PROCEDURE [
      qd: DESCRIPTOR FOR ARRAY OF ActionEntry,
      vd: DESCRIPTOR FOR ARRAY OF UNSPECIFIED,
      ld: DESCRIPTOR FOR ARRAY OF CARDINAL,
      pd: DESCRIPTOR FOR ARRAY OF ProductionInfo];
    ProcessQueue: PROCEDURE [qI, top: CARDINAL];
    TokenValue: PROCEDURE [Symbol] RETURNS [UNSPECIFIED];

    -- the global frames
    Scanner, Parser, Pass1T: PROGRAM;

  END.
```