```
-- file: ListerDefs.mesa
-- edited by Sandman September 6, 1977  3:44 PM

DIRECTORY
  AltoDefs: FROM "altodefs",
  BcdDefs: FROM "bcddefs",
  SegmentDefs: FROM "segmentdefs",
  SymbolTableDefs: FROM "symboltabledefs";

ListerDefs: DEFINITIONS =
  BEGIN

  BYTE: TYPE = AltoDefs.BYTE;

  -- from OpTable
  instlength: PROCEDURE [BYTE] RETURNS [[0..3]];
  pushstack: PROCEDURE [BYTE] RETURNS [[0..7]];
  popstack: PROCEDURE [BYTE] RETURNS [[0..7]];

  -- from OpNames
  OpNames: PROGRAM;
  instname: PROCEDURE [BYTE] RETURNS [STRING];
  UnknownInstruction: SIGNAL[name: STRING];
  instcode: PROCEDURE [name: STRING] RETURNS [i: BYTE];
  DeleteArray: SegmentDefs.SwappingProcedure;
  SetupArray: PROCEDURE;

  IncorrectVersion: SIGNAL;
  Load: PROCEDURE [STRING] RETURNS [codeseg, symbolseg: SegmentDefs.FileSegmentHandle];
  NoCode, NoSymbols, NoFGT: SIGNAL;
  WriteFileID: PROCEDURE [STRING];

  -- known PROGRAM modules
  BcdList: PROGRAM;
  ListCode: PROGRAM;
  ListSymbols: PROGRAM;
  ListInterface: PROGRAM;
  ListFrame: PROGRAM;

END. of listcode
```