

```
-- file DILitDefs.Mesa
-- last modified by
--           Sandman, November 2, 1977  8:44 AM
--           Barbara, June 21, 1978   1:05 PM

DIRECTORY
  AltoDefs: FROM "altodefs" USING [PageSize],
  StringDefs: FROM "stringdefs" USING [SubString, SubStringDescriptor];

DILitDefs: DEFINITIONS =
  BEGIN

    LitTabInit, LitTabErase: PROCEDURE;

  -- numeric literals

  LTRecord: PRIVATE TYPE = RECORD [
    free: BOOLEAN,
    link: LTIndex,
    datum: SELECT kind: * FROM
      short => [value: WORD, unused: UNSPECIFIED],
      long  => [value: LONG INTEGER],
      ENDCASE];

  --size of debugger's literal table is currently 1 page
  HalfPage: CARDINAL = AltoDefs.PageSize/2;

  LTRecordSize: CARDINAL = 3;
  MaxLiterals: CARDINAL = HalfPage/LTRecordSize;
  LTIndex: TYPE = CARDINAL [0..MaxLiterals];
  LTNull: PRIVATE LTIndex = FIRST[LTIndex];

  FindLiteral: PROCEDURE [WORD] RETURNS [LTIndex];
  LiteralValue: PROCEDURE [LTIndex] RETURNS [WORD];
  FindLongLiteral: PROCEDURE [LONG INTEGER] RETURNS [LTIndex];
  LongLiteralValue: PROCEDURE [LTIndex] RETURNS [LONG INTEGER];
  TooManyLiterals: ERROR;

  -- string literals

  STRecord: PRIVATE TYPE = RECORD [
    free: BOOLEAN,
    link: STIndex,
    string: StringDefs.SubStringDescriptor];
  -- the actual string text follows here

  STRecordSize: CARDINAL = 5;
  MaxStringLiterals: CARDINAL = HalfPage/STRecordSize;
  STIndex: TYPE = CARDINAL [0..MaxStringLiterals];
  STNull: PRIVATE STIndex = FIRST[STIndex];

  FindStringLiteral: PROCEDURE [StringDefs.SubString] RETURNS [STIndex];
  StringLiteralValue: PROCEDURE [STIndex] RETURNS [StringDefs.SubString];
  TooManyStringLiterals: ERROR;

  END.
```