-- IODefs.Mesa   Edited by Johnsson on April 10, 1978 10:54 AM

DIRECTORY
  StreamDefs: FROM "streamdefs";

IODefs: DEFINITIONS =
  BEGIN

  -- some control characters

  NUL: CHARACTER = 0C;
  ControlA: CHARACTER = 'A-100B;
  ControlB: CHARACTER = 'B-100B;
  ControlC: CHARACTER = 'C-100B;
  ControlD: CHARACTER = 'D-100B;
  ControlE: CHARACTER = 'E-100B;
  ControlF: CHARACTER = 'F-100B;
  ControlG, BEL: CHARACTER = 'G-100B;
  ControlH, BS: CHARACTER = 'H-100B;
  ControlI, TAB: CHARACTER = 'I-100B;
  ControlJ, LF: CHARACTER = 'J-100B;
  ControlK: CHARACTER = 'K-100B;
  ControlL, FF: CHARACTER = 'L-100B;
  ControlM, CR: CHARACTER = 'M-100B;
  ControlN: CHARACTER = 'N-100B;
  ControlO: CHARACTER = 'O-100B;
  ControlP: CHARACTER = 'P-100B;
  ControlQ: CHARACTER = 'Q-100B;
  ControlR: CHARACTER = 'R-100B;
  ControlS: CHARACTER = 'S-100B;
  ControlT: CHARACTER = 'T-100B;
  ControlU: CHARACTER = 'U-100B;
  ControlV: CHARACTER = 'V-100B;
  ControlW: CHARACTER = 'W-100B;
  ControlX: CHARACTER = 'X-100B;
  ControlY: CHARACTER = 'Y-100B;
  ControlZ: CHARACTER = 'Z-100B;
  ESC: CHARACTER = 33C;
  SP: CHARACTER = ' ;
  DEL: CHARACTER = 177C;

  -- numerical output formatting

  NumberFormat: TYPE = RECORD [
    base: [2..36],
    zerofill, unsigned: BOOLEAN,
    columns: [0..255]];

  StreamIO: PROGRAM;

  GetInputStream, GetOutputStream: PROCEDURE RETURNS [StreamDefs.StreamHandle];
  SetInputStream, SetOutputStream: PROCEDURE [StreamDefs.StreamHandle];

  NewLine: PROCEDURE RETURNS [BOOLEAN];

  ReadChar: PROCEDURE RETURNS [CHARACTER];
  WriteChar: PROCEDURE [CHARACTER];

  ReadEditedString: PROCEDURE [
    STRING, PROCEDURE [CHARACTER] RETURNS [BOOLEAN], BOOLEAN]
    RETURNS [CHARACTER];

  ReadString: PROCEDURE [STRING, PROCEDURE [CHARACTER] RETURNS [BOOLEAN]];
  WriteString: PROCEDURE [STRING];

  Rubout: SIGNAL;
  LineOverflow: SIGNAL [s: STRING] RETURNS [ns: STRING];

  ReadID, ReadLine, WriteLine: PROCEDURE [STRING];

  OutNumber: PROCEDURE [StreamDefs.StreamHandle, UNSPECIFIED, NumberFormat];
  WriteNumber: PROCEDURE [UNSPECIFIED, NumberFormat];
  ReadNumber: PROCEDURE [default: UNSPECIFIED, radix: CARDINAL] RETURNS [UNSPECIFIED];
  ReadOctal: PROCEDURE RETURNS [UNSPECIFIED];
  WriteOctal: PROCEDURE [UNSPECIFIED];

```
ReadDecimal: PROCEDURE RETURNS [INTEGER];
WriteDecimal: PROCEDURE [INTEGER];

END.
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