DIRECTORY
StreamDefs: FROM "streamdefs";

DEFINITIONS FROM StreamDefs;

IODefs: DEFINITIONS = BEGIN

-- some control characters
NUL: CHARACTER = OC;
ControlA: CHARACTER = 1C;
ControlB: CHARACTER = 2C;
ControlC: CHARACTER = 3C;
ControlD: CHARACTER = 4C;
ControlE: CHARACTER = 5C;
ControlF: CHARACTER = 6C;
Bel: BEL: CHARACTER = 7C;
ControlH: BS: CHARACTER = 10C;
ControlI: TAB: CHARACTER = 11C;
ControlJ: LF: CHARACTER = 12C;
ControlK: CHARACTER = 13C;
ControlL: FF: CHARACTER = 14C;
ControlM: CR: CHARACTER = 15C;
ControlN: CHARACTER = 16C;
ControlO: CHARACTER = 17C;
ControlP: CHARACTER = 18C;
ControlQ: CHARACTER = 19C;
ControlR: CHARACTER = 20C;
ControlS: CHARACTER = 21C;
ControlT: CHARACTER = 22C;
ControlU: CHARACTER = 23C;
ControlV: CHARACTER = 24C;
ControlW: CHARACTER = 25C;
ControlX: CHARACTER = 26C;
ControlY: CHARACTER = 27C;
ControlZ: CHARACTER = 30C;
Esc: CHARACTER = 33C;
Sp: CHARACTER = 40C;
Del: CHARACTER = 177C;

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

GetlnputStream, GetOutputStream: PROCEDURE RETURNS [StreamHandle];

Newln: 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]] RETURNS [STRING];

WriteString: PROCEDURE [STRING];

Rubout, InvalidNumberBase: SIGNAL;

lineOverflow: SIGNAL [s: STRING] RETURNS [ns: STRING];

ReadID, ReadLine, WriteLine: PROCEDURE [STRING];

OutNumber: PROCEDURE [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 [INTGR];
WriteDecimal: PROCEDURE [INTGR];
StreamIO: PROGRAM [Input, Output: StreamHandle];
END.