LALRDefs: DEFINITIONS = PRIVATE
BEGIN -- data structures used by the MESA parser
Symbol: TYPE = [0..377B];
State: TYPE = CARDINAL;

Asst1Entry: TYPE = MACHINE DEPENDENT RECORD [
  tlen: [0..377B], -- number of terminal entries
  assocsym: Symbol]; -- associated symbol

ActionTag: TYPE = MACHINE DEPENDENT RECORD [
  reduce: BOOLEAN, -- TRUE iff reduce entry
  plength: [0..176]]; -- number of symbols in production rhs

ActionEntry: TYPE = MACHINE DEPENDENT RECORD [
  rtag: ActionTag, -- [FALSE.OJ if a shift entry
  transition: [0..37776]); -- production number / next state

ProductionInfo: TYPE = MACHINE DEPENDENT RECORD [
  rule: [0..377B], -- reduction rule
  lhs: Symbol]; -- production lhs symbol

VocabHashEntry: TYPE = MACHINE DEPENDENT RECORD [
  symptr: [0..377B], -- symbol index
  link: [0..377B]]; -- link to next entry

SymbolRecord: TYPE = RECORD [
  class: Symbol, -- the token class
  value: UNSPECIFIED,
  index: CARDINAL]; -- source line index

-- token indices for the scanner
tokenId: Symbol = 1;
tokenNUM: Symbol = 2;
tokenLNUM: Symbol = 3;
tokenSTR: Symbol = 4;
tokenLSTR: Symbol = 5;
tokenCHAR: Symbol = 6;
tokenMINUS: Symbol = 21;
tokenDOT: Symbol = 25;
tokenDOTS: Symbol = 10;
tokenEQUAL: Symbol = 13;
tokenARROW: Symbol = 11;
tokenLESS: Symbol = 15;
tokenLE: Symbol = 17;
tokenGREATER: Symbol = 16;
tokenGE: Symbol = 18;

Initia1Symbol: Symbol = tokenDOT;

-- output of the table generator
hashval: CARDINAL = 203;
endmarker: Symbol = 135;
lastntstate: State = 162;

LALRTable: PUBLIC TYPE = PRIVATE MACHINE DEPENDENT RECORD [
  scantable: RECORD[
    hashtab: ARRAY [0..203] OF VocabHashEntry,
    scantab: ARRAY [CHARACTER [40C..177C]] OF Symbol,
    vocabbody: RECORD [ -- a string body
      length, maxlength: CARDINAL,
      text: ARRAY [0..313] OF UNSPECIFIED],
    vocabindex: ARRAY [0..135] OF CARDINAL],
  parsetable: RECORD[
    proddata: ARRAY [0..336] OF ProductionInfo,
    nstate: ARRAY [0..162] OF CARDINAL,
    nlen: ARRAY [0..162] OF CARDINAL,
    nsym: ARRAY [0..254] OF Symbol,
    nact: ARRAY [0..254] OF ActionEntry,]
ntdefaults: ARRAY [0..120] OF ActionEntry,
asst1: ARRAY [0..347] OF Asst1Entry,
tstate: ARRAY [0..347] OF CARDINAL,
tsym: ARRAY [0..1419] OF Symbol,
tact: ARRAY [0..1419] OF ActionEntry];

END.