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-- file DILALRDefs.mesa
-- last modified by Barbara, June 28, 1978  4:34 PM

DILALRDefs: DEFINITIONS = PRIVATE
BEGIN -- data structures used by the Debugger Interpreter parser

Symbol: TYPE = [0..377B];
State: TYPE = CARDINAL;

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

ActionTag: TYPE = MACHINE DEPENDENT RECORD [
  reduce: BOOLEAN,         -- TRUE iff reduce entry
  plength: [0..17B]];     -- number of symbols in production rhs

ActionEntry: TYPE = MACHINE DEPENDENT RECORD [
  rtag: ActionTag,        -- [FALSE,0] if a shift entry
  transition: [0..3777B]]; -- 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;
tokenCHAR: Symbol = 5;
tokenDOT: Symbol = 15;
tokenDOTS: Symbol = 8;

-- output of the table generator

hashval: CARDINAL = 55;

endmarker: Symbol = 36;
lastntstate: State = 23;

LALRTableHandle: PUBLIC TYPE = POINTER TO LALRTable;

LALRTable: PUBLIC TYPE = PRIVATE MACHINE DEPENDENT RECORD [
  scantable: RECORD[
    hashtab: ARRAY [0.. 55] OF VocabHashEntry,
    scantab: ARRAY CHARACTER [40C..177C] OF Symbol,
    vocabbody: RECORD [ -- a string body
      length, maxlength: CARDINAL,
      text: ARRAY [0.. 59] OF UNSPECIFIED],
    vocabindex: ARRAY [0.. 36] OF CARDINAL],
  parsetable: RECORD[
    proddata: ARRAY [0.. 61] OF ProductionInfo,
    nstate: ARRAY [0.. 23] OF CARDINAL,
    nlen: ARRAY [0.. 23] OF CARDINAL,
    nsym: ARRAY [0.. 23] OF Symbol,
    nact: ARRAY [0.. 23] OF ActionEntry,
    ntdefaults: ARRAY [0.. 20] OF ActionEntry,
    asst1: ARRAY [0.. 54] OF Asst1Entry,
    tstate: ARRAY [0.. 54] OF CARDINAL,
    tsym: ARRAY [0..148] OF Symbol,
    tact: ARRAY [0..148] OF ActionEntry]];

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END.