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-- file DITypeDefs.Mesa
-- last modified by Barbara, June 21, 1978 11:06 AM

DIRECTORY
  DIDefs: FROM "didefs" USING [ESPointer, predefinedType, thereESPointer],
  SymbolTableDefs: FROM "symboltabledefs" USING [SymbolTableBase],
  SymDefs: FROM "symdefs" USING [CSEIndex, SEIndex];

DITypeDefs: DEFINITIONS =
  BEGIN

    thereESPointer: TYPE = DIDefs.thereESPointer;
    ESPointer: TYPE = DIDefs.ESPointer;
    SymbolTableBase: TYPE = SymbolTableDefs.SymbolTableBase;
    SEIndex: TYPE = SymDefs.SEIndex;

-- type manipulation

    TypeIU: PROCEDURE [ESPointer] RETURNS [BOOLEAN];
    TypeIUP: PROCEDURE [ESPointer] RETURNS [BOOLEAN];
    TypeArray: PROCEDURE [ESPointer] RETURNS [BOOLEAN];
    TypeArrayDesc: PROCEDURE [ESPointer] RETURNS [BOOLEAN];
    TypeBoolean: PROCEDURE [ESPointer] RETURNS [BOOLEAN];
    TypeCharacter: PROCEDURE [ESPointer] RETURNS [BOOLEAN];
    TypeInteger: PROCEDURE [ESPointer] RETURNS [BOOLEAN];
    TypeLong: PROCEDURE [ESPointer] RETURNS [BOOLEAN];
    TypePointer: PROCEDURE [ESPointer] RETURNS [BOOLEAN];
    TypeProcedure: PROCEDURE [ESPointer] RETURNS [BOOLEAN];
    TypeRecord: PROCEDURE [ESPointer] RETURNS [BOOLEAN];
    TypeString: PROCEDURE [ESPointer] RETURNS [BOOLEAN];
    TypeUnspec: PROCEDURE [ESPointer] RETURNS [BOOLEAN];

    StrippedType: PROCEDURE [ESPointer] RETURNS [SymDefs.CSEIndex];

    AssignableTypes: PROCEDURE [lhs, rhs: ESPointer] RETURNS [BOOLEAN];
    EquivalentTypes: PROCEDURE [ESPointer, ESPointer] RETURNS [BOOLEAN];

    DereferencePointer: PROCEDURE [thereESPointer] RETURNS [thereESPointer];

    SeiPType: PROCEDURE [type: DIDefs.predefinedType, stbase: SymbolTableBase]
      RETURNS [sei: SEIndex];
    FindContextZeroId: PROCEDURE [stbase: SymbolTableBase, id: STRING]
      RETURNS [sei: SEIndex];

    SeiInteger: SEIndex = LOOPHOLE[0];
    SeiCardinal: SEIndex = LOOPHOLE[1];
    SeiCharacter: SEIndex = LOOPHOLE[2];
    SeiBoolean: SEIndex = LOOPHOLE[3];
    SeiString: SEIndex = LOOPHOLE[4];
    SeiUnspecified: SEIndex = LOOPHOLE[5];
    SeiLongInteger: SEIndex = LOOPHOLE[6];

  END...
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