

-- BcdTabDefs.Mesa Edited by Johnsson on August 3, 1977 2:49 PM

DIRECTORY

BcdDefs: FROM "bcddefs",
 BcdTableDefs: FROM "bcdtabledefs",
 StringDefs: FROM "stringdefs";

BcdTabDefs: DEFINITIONS =
 BEGIN

TableLimit: CARDINAL = BcdTableDefs.TableLimit;

-- Hash Table

HVLength: PRIVATE INTEGER = 71;
 HVIndex: TYPE = INTEGER [0..HVLength];

HTRecord: TYPE = RECORD [
 link: HTIndex,
 offset: CARDINAL];

HTNull: HTIndex = LAST[HTIndex];
 HTIndex: TYPE = INTEGER [0..TableLimit];

-- Semantic Table

STRecord: TYPE = RECORD [
 filename, assigned: BOOLEAN,
 hti: HTIndex,
 imported, exported: BOOLEAN,
 link: STIndex,
 impi: BcdDefs.IMPIndex,
 impgfi: CARDINAL,
 body: SELECT type: * FROM
 unknown => NULL,
 local => [
 info: BcdTableDefs.TableIndex, --BcdTreeDefs.TreeIndex,
 context: CXIndex],
 external => [
 map: STMap,
 pointer: SELECT ptype: * FROM
 instance => [sti: STIndex],
 file => [fti: BcdDefs.FTIndex],
 ENDCASE],
 ENDCASE];

STNull: STIndex = LAST[STIndex];
 STIndex: TYPE = POINTER [0..TableLimit) TO STRecord;

STMap: TYPE = RECORD [
 SELECT type: * FROM
 unknown => NULL,
 config => [cti: BcdDefs.CTIndex],
 module => [mti: BcdDefs.MTIndex],
 interface => [expi: BcdDefs.EXPIndex],
 ENDCASE];

-- Context Table

CXRecord: TYPE = RECORD [
 link: STIndex];

CXNull: CXIndex = LAST[CXIndex];
 CXIndex: TYPE = POINTER [0..TableLimit) TO CXRecord;

-- Hash Manipulation

FindString, FindEquivalentString: PROCEDURE [StringDefs.SubString] RETURNS [found: BOOLEAN, hti: HTIndex];
 EnterString: PROCEDURE [StringDefs.SubString] RETURNS [HTIndex];
 SubStringForHash: PROCEDURE [StringDefs.SubString, HTIndex];

-- Administrative Procedures

BcdTabInit, BcdTabErase, BcdTabReset: PROCEDURE;

END.