

-- BcdTabDefs.Mesa Edited by Sandman on March 22, 1978 2:43 PM

DIRECTORY

BcdDefs: FROM "bcddefs",
TableDefs: FROM "tabledefs",
StringDefs: FROM "stringdefs";

BcdTabDefs: DEFINITIONS =
BEGIN

TableLimit: CARDINAL = TableDefs.TableLimit;

-- Hash Table

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

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

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

-- Semantic Table

STRecord: TYPE = RECORD [
filename, assigned: BOOLEAN,
hti: HTIndex,
imported, exported: BOOLEAN,
link: STIndex,
impi: BcdDefs.IMPIndex,
imgffi: CARDINAL,
body: SELECT type: * FROM
unknown => NULL,
local => [
info: TableDefs.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: HTIn
**dex];
EnterString: PROCEDURE [StringDefs.SubString] RETURNS [HTIndex];
SubStringForHash: PROCEDURE [StringDefs.SubString, HTIndex];

-- Administrative Procedures

BcdTabInit, BcdTabErase, BcdTabReset: PROCEDURE;

END.