

-- BcdTableDefs.Mesa Edited by Johnsson on June 28, 1977 2:32 PM

DIRECTORY

AltoDefs: FROM "altodefs";

BcdTableDefs: DEFINITIONS =
BEGIN

TableSelector: TYPE = CARDINAL [0..10];

-- tables for the binder (adjust TableSelector also)

treetype: TableSelector = 0; -- trees
httype: TableSelector = 1; -- hash table
sstype: TableSelector = 2; -- string table
cttype: TableSelector = 3; -- config table
mttype: TableSelector = 4; -- module table
imptype: TableSelector = 5; -- import table
exptype: TableSelector = 6; -- export table
fttype: TableSelector = 7; -- file table
sttype: TableSelector = 8; -- semantic table
cxtype: TableSelector = 9; -- context table
nttype: TableSelector = 10; -- name table

TableLimit: CARDINAL = 40000B;
TableBase: TYPE = [0..AltoDefs.VMLimit];
TableIndex: TYPE = POINTER [0..TableLimit];

-- allocation from the tables as stacks

Allocate: PROCEDURE [table: TableSelector, size: CARDINAL] RETURNS [TableIndex];
ResetTable: PUBLIC PROCEDURE [table: TableSelector];
TableBounds: PROCEDURE [table: TableSelector] RETURNS [base: TableBase, size: CARDINAL];
TableOverflow: SIGNAL RETURNS [origin, limit: CARDINAL];
StackAllocateError: SIGNAL [table: TableSelector];

-- allocation from free list (first table only)

chunktype: TableSelector = FIRST[TableSelector];

GetChunk: PROCEDURE [size: CARDINAL] RETURNS [TableIndex];
FreeChunk: PROCEDURE [i: TableIndex, size: CARDINAL];

-- notification of repacking

TableNotifier: TYPE = PROCEDURE [base: DESCRIPTOR FOR ARRAY TableSelector OF TableBase];

AddNotify: PROCEDURE [proc: TableNotifier];
DropNotify: PROCEDURE [proc: TableNotifier];

-- administrative procedures

InitializeTable: PROCEDURE [origin, size: CARDINAL];
EraseTable: PROCEDURE;

END...