

-- MIUtilityDefs.Mesa Edited by Sandman on March 21, 1978 3:47 PM

DIRECTORY

AltoDefs: FROM "altodefs",
 AltoFileDefs: FROM "altofiledefs",
 ControlDefs: FROM "controldefs",
 ImageDefs: FROM "imagedefs",
 LoadStateDefs: FROM "loadstatedefs",
 ProcessDefs: FROM "processdefs",
 SegmentDefs: FROM "segmentdefs",
 StreamDefs: FROM "streamdefs";

DEFINITIONS FROM ImageDefs;

MIUtilityDefs: DEFINITIONS SHARES ImageDefs, ProcessDefs =
 BEGIN

CFA: TYPE = AltoFileDefs.CFA;
 DataSegmentHandle: TYPE = SegmentDefs.DataSegmentHandle;
 FP: TYPE = AltoFileDefs.FP;
 FileHandle: TYPE = SegmentDefs.FileHandle;
 FileRequest: TYPE = ImageDefs.FileRequest;
 FileSegmentHandle: TYPE = SegmentDefs.FileSegmentHandle;
 PageCount: TYPE = AltoDefs.PageCount;
 PageNumber: TYPE = AltoDefs.PageNumber;
 shortFileRequest: TYPE = short ImageDefs.FileRequest;
 vDA: TYPE = AltoFileDefs.vDA;
 GlobalFrameHandle: TYPE = ControlDefs.GlobalFrameHandle;
 LoadStateGFT: TYPE = LoadStateDefs.LoadStateGFT;
 ConfigIndex: TYPE = LoadStateDefs.ConfigIndex;
 StreamHandle: TYPE = StreamDefs.StreamHandle;
 ProcDesc: TYPE = ControlDefs.ProcDesc;

-- file requests

InitFileRequest: PROCEDURE;
 AddFileRequest: PROCEDURE [r: POINTER TO FileRequest];
 DropFileRequest: PROCEDURE [f: FileHandle];
 ProcessFileRequests: PROCEDURE;

-- bcd file names

GetBcdFileNames: PROCEDURE [nbcds: ConfigIndex]
 RETURNS [names: DESCRIPTOR FOR ARRAY OF STRING];

-- Bcd Merging Management

MergeAllBcDs: PROCEDURE [initialgft: LoadStateGFT, code: BOOLEAN,
 names: DESCRIPTOR FOR ARRAY OF STRING];
 MergeABcd: PROCEDURE [config: ConfigIndex, initgft: LoadStateGFT,
 code: BOOLEAN, names: DESCRIPTOR FOR ARRAY OF STRING];
 NewBcdSegmentFromStream: PROCEDURE [
 stream: StreamDefs.DiskHandle, page: PageNumber]
 RETURNS [newpage: PageNumber, seg: FileSegmentHandle];
 MoveWords: PROCEDURE [source: POINTER, nwords: CARDINAL];

-- space allocation

SpaceHeader: TYPE = RECORD [
 link: POINTER TO SpaceHeader,
 segment: DataSegmentHandle];
 InitSpace: PROCEDURE;
 GetSpace: PROCEDURE [n: CARDINAL] RETURNS [p: POINTER];
 GetString: PROCEDURE [oldstring: STRING] RETURNS [newstring: STRING];
 FreeAllSpace: PROCEDURE;

-- image file management

LockCodeSegment: PROCEDURE [p: ProcDesc];
 UnlockCodeSegment: PROCEDURE [p: ProcDesc];
 KDSegment: PROCEDURE RETURNS [FileSegmentHandle];
 DAofPage: PROCEDURE [file: FileHandle, page: PageNumber] RETURNS [next: vDA];
 FillInCAs: PROCEDURE [
 Image: POINTER TO ImageHeader, mapindex: CARDINAL, ca: POINTER];

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SwapOutUnlockedCode: PROCEDURE [f: GlobalFrameHandle] RETURNS [BOOLEAN];
SwapOutUnlocked: PROCEDURE [s: FileSegmentHandle] RETURNS [BOOLEAN];
BashHint: PROCEDURE [s: FileSegmentHandle] RETURNS [BOOLEAN];
BashFile: PROCEDURE [f: FileHandle] RETURNS [BOOLEAN];
PatchUpGFT: PROCEDURE;
InitLoadStateGFT: PROCEDURE [initgft: LoadStateGFT, merge: BOOLEAN, nbcds: ConfigIndex];
NumberGFIIInConfig: PROCEDURE [initgft: LoadStateGFT, con: ConfigIndex]
    RETURNS [ngfi: ControlDefs.GFTIndex];
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END.