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-- DebugUtilityDefs.mesa
-- Edited by:
--           Johnson August 29, 1978 9:33 AM
--           Sande May 24, 1978 10:11 AM
--           Barba July 18, 1978 9:25 AM
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DIRECTORY

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AllocDefs: FROM "allocdefs" USING [SwappingProcedure],
AltoDefs: FROM "altodefs" USING [BYTE],
ControlDefs: FROM "controldefs" USING [
  BytePC, FrameHandle, GFTIndex, GlobalFrameHandle, ProcDesc, SVPointer],
CoreSwapDefs: FROM "coreswapdefs" USING [SVPointer, SwapReason],
DebugBreakptDefs: FROM "debugbreakptdefs" USING [CodeObject],
DebuggerDefs: FROM "debuggerdefs" USING [LA],
ProcessDefs: FROM "processdefs" USING [Priority, ProcessHandle],
SegmentDefs: FROM "segmentdefs" USING [
  AccessOptions, FileHandle, FileSegmentHandle, PageCount, PageNumber],
StringDefs: FROM "stringdefs" USING [SubString];
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```
DEFINITIONS FROM ControlDefs, SegmentDefs;
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```
DebugUtilityDefs: DEFINITIONS SHARES ProcessDefs =
```

BEGIN

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AddCommand: PROCEDURE [tag: STRING, proc: PROCEDURE];
AllocOnDrum: PROCEDURE [useg: FileSegmentHandle]
  RETURNS [POINTER];
Bound: PROCEDURE [UNSPECIFIED] RETURNS [BOOLEAN];
CacheNewFile: PROCEDURE [name: STRING, access: AccessOptions]
  RETURNS [file: FileHandle];
CheckFrame: PROCEDURE [f: FrameHandle] RETURNS [BOOLEAN];
CodeFile: PROCEDURE [f: GlobalFrameHandle] RETURNS [FileHandle];
CoreSwap: PROCEDURE [why: CoreSwapDefs.SwapReason];
DebugUtilitiesInit: PROCEDURE;
FileName: PROCEDURE [name: STRING, file: FileHandle];
FindOriginal: PROCEDURE [copy: GlobalFrameHandle]
  RETURNS [GlobalFrameHandle];
FindSymbolTable: PROCEDURE [name: STRING]
  RETURNS [file: FileHandle, base: PageNumber, pages: PageCount];
FlushCodeSegmentCache: PROCEDURE;
FlushCoreCache: AllocDefs.SwappingProcedure;
FreeOnDrum: PROCEDURE [f: GlobalFrameHandle];
GetCurrentStateFromPSB: PROCEDURE RETURNS [SVPointer];
GetProcessPriority: PROCEDURE [psb: ProcessDefs.ProcessHandle]
  RETURNS [ProcessDefs.Priority];
GftoCode: PROCEDURE [f: GlobalFrameHandle]
  RETURNS [DebugBreakptDefs.CodeObject];
InitializeDrum: PROCEDURE;
InvalidateFileCache: PROCEDURE;
LengthenPointer: PROCEDURE [POINTER] RETURNS [LONG POINTER];
LoadNew: PROCEDURE [file: STRING] RETURNS [GlobalFrameHandle];
LongREAD: PROCEDURE [a: LONG POINTER] RETURNS [UNSPECIFIED];
LongWRITE: PROCEDURE [a: LONG POINTER, v: UNSPECIFIED];
MakeProcedureDescriptor: PROCEDURE [ep: CARDINAL, gframe: GlobalFrameHandle]
  RETURNS [pd: ProcDesc];
MapUserSegment: PROCEDURE [useg: FileSegmentHandle]
  RETURNS [seg: FileSegmentHandle];
AREAD, MREAD, SREAD: PROCEDURE [a: UNSPECIFIED] RETURNS [UNSPECIFIED];
ReadCodeByte: PROCEDURE [gframe: GlobalFrameHandle, pc: BytePC]
  RETURNS [AltoDefs.BYTE];
ReadGlobalGFI: PROCEDURE [f: GlobalFrameHandle] RETURNS [GFTIndex];
RemoveFromDrum: PROCEDURE [useg: FileSegmentHandle];
ReverseEnumerateGlobalFrames: PROCEDURE [
  proc: PROCEDURE [GlobalFrameHandle] RETURNS [BOOLEAN]]
  RETURNS [GlobalFrameHandle];
UserCall: PROCEDURE [CoreSwapDefs.SVPointer]
  RETURNS [p: CoreSwapDefs.SVPointer];
UserProc: PROCEDURE;
UserStart: PROCEDURE [GlobalFrameHandle];
UserWriteString: PROCEDURE [STRING];
UserWriteSubString: PROCEDURE [StringDefs.SubString];
UserWriteLongString: PROCEDURE [LONG STRING];
UserWriteLongSubString: PROCEDURE [
  ls: LONG STRING, offset, length: CARDINAL];
ValidatePSB: PROCEDURE [psb: ProcessDefs.ProcessHandle] RETURNS [BOOLEAN];
```

```
ValidGlobalFrame: PROCEDURE [GlobalFrameHandle] RETURNS [BOOLEAN];
VirtualGlobalFrame: PROCEDURE [GlobalFrameHandle]
  RETURNS [GlobalFrameHandle];
WriteCodeByte: PROCEDURE [gframe: GlobalFrameHandle, pc: BytePC,
  b: AltoDefs.BYTE];
AWRITE, MWRITE, SWRITE: PROCEDURE [a, v: UNSPECIFIED];

--signals
AmbiguousTag: SIGNAL [oldTag: STRING];
DebuggerError: SIGNAL;
InitDebugger: SIGNAL [sp: CoreSwapDefs.SVPointer, message: STRING];
InitMapCleanup: SIGNAL;
InitUCSHandler: SIGNAL [sp: CoreSwapDefs.SVPointer, signal: UNSPECIFIED];
InvalidAddress: SIGNAL [a: DebuggerDefs.LA];
KillSession: SIGNAL;
LoadStateInvalid: SIGNAL;
NonExistentMemoryPage: SIGNAL [page: CARDINAL];
NoUserProcsLoaded: SIGNAL;
RemoteSegment: SIGNAL [seg: FileSegmentHandle];

END...
```