

```
-- File: BootmesaDefs.Mesa
-- Last edited by Sandman; May 10, 1978 9:39 AM
```

DIRECTORY

```
AltoDefs: FROM "altodefs",
BcdDefs: FROM "bcddefs",
ControlDefs: FROM "controldefs",
FakeSegDefs: FROM "fakesegdefs",
ImageDefs: FROM "imagedefs",
LoaderBcdUtilDefs: FROM "loaderbcdutildefs",
SegmentDefs: FROM "segmentdefs",
StreamDefs: FROM "streamdefs",
WartDefs: FROM "wartdefs";
```

```
DEFINITIONS FROM AltoDefs, FakeSegDefs, ControlDefs;
```

```
BootmesaDefs: DEFINITIONS SHARES ImageDefs =
BEGIN
```

```
BootIndex: TYPE = WartDefs.BootIndex;
BootScriptHeader: TYPE = WartDefs.BootScriptHeader;
```

```
FirstFrameWord: TYPE = MACHINE DEPENDENT RECORD [
  gfi: GFTIndex,
  unused: [0..3],
  allocated, shared, started: BOOLEAN,
  trapxfers, codelinks: BOOLEAN];
```

```
-- From BootScript
```

```
GetBootIndex: PROCEDURE RETURNS [BootIndex];
GetBootTestTable: PROCEDURE RETURNS [CARDINAL];
InitializeBootScript: PROCEDURE;
FinishBootScript: PROCEDURE [startframe: GlobalFrameHandle]
  RETURNS [headerloc: Address];
DeclareVMBounds: PROCEDURE [b: VMBounds];
DeclareBootCommand: PROCEDURE [c: WartDefs.BootCommand];
DeclareSwapOut: PROCEDURE [f: GlobalFrameHandle];
DeclareOpenFiles: PROCEDURE;
DeclareSegment: PROCEDURE [s: FakeSegmentHandle] RETURNS [BOOLEAN];
DeclareCodeLink: PROCEDURE [f: GlobalFrameHandle] RETURNS [BOOLEAN];
DeclareUnlock: PROCEDURE [s: FakeSegmentHandle];
UnlockFrame: PROCEDURE [f: GlobalFrameHandle];
WriteScriptSegments: PROCEDURE;
```

```
-- From BootImage
```

```
WriteSwappedIn: PROCEDURE [s: FakeSegmentHandle] RETURNS [BOOLEAN];
WriteSwappedOut: PROCEDURE [s: FakeSegmentHandle] RETURNS [BOOLEAN];
SegmentToMap: PROCEDURE [FakeSegmentHandle];
EnterMapSegment: PROCEDURE [FakeSegmentHandle];
DeclareSegments: PROCEDURE;
```

```
-- From Bootmesa
```

```
InitializeHeap: PROCEDURE;
AllocGlobalFrame: PROCEDURE [
  framesize, nlinks: CARDINAL, framelinks: BOOLEAN] RETURNS [POINTER];
DeclareLoadStateParameters: PROCEDURE [
  FakeSegmentHandle, FakeSegmentHandle, FakeSegmentHandle];
AdjustBcd: PROCEDURE [FakeSegmentHandle];
InitializeBootmesa: PROCEDURE [PageCount, STRING]
  RETURNS [BcdDefs.VersionStamp];
InitializeImage: PROCEDURE;
ListResidentCodeOffsets: PROCEDURE;
LockFrame: PROCEDURE [GlobalFrameHandle];
SetExtraFrames: PROCEDURE;
SwapInFrame: PROCEDURE [GlobalFrameHandle];
WriteImage: PROCEDURE;
XFER: PROCEDURE [dest: GlobalFrameHandle];
SetDefaultMemoryLimits: PROCEDURE [fp, lp: PageNumber];
SetDefaultNProcesses: PROCEDURE [n: CARDINAL];
SetDefaultGFTLength: PROCEDURE [l: CARDINAL];
```

```
BootmesaError: PROCEDURE [msg: STRING];
BootmesaModuleError: PROCEDURE [msg, config, module: STRING];
```

-- From BootLoader

```
Load: PROCEDURE [STRING]
  RETURNS [FakeSegmentHandle, FakeSegmentHandle, FakeSegmentHandle];
CantFindCodeFile: SIGNAL;
InvalidBcd: ERROR [bcdfile: SegmentDefs.FileHandle];
InvalidFile: ERROR [name: STRING];
OpenLoadmap: PROCEDURE [root: STRING];
CloseLoadmap: PROCEDURE;
InitializeGFT: PROCEDURE [POINTER, CARDINAL];
```

-- From BootUtilities

```
ModuleName: PROCEDURE [frame: GlobalFrameHandle, name: STRING];
Frame: PROCEDURE [STRING] RETURNS [GlobalFrameHandle];
InitUtilities: PROCEDURE [LoaderBcdUtilDefs.BcdBase];
SetConfig: PROCEDURE [name: STRING];
ResetConfig: PROCEDURE;
```

-- From Other Modules

-- From BootUser

```
OpenSource: PROCEDURE [root: STRING];
CloseSource: PROCEDURE;
ParseInput: PROCEDURE;
NubFrame, WartFrame, UserControl: PROCEDURE RETURNS [GlobalFrameHandle];
LookUpResidentModules: PROCEDURE;
EnumerateResidentModules: PROCEDURE [
  proc: PROCEDURE [GlobalFrameHandle] RETURNS [BOOLEAN]]
  RETURNS [GlobalFrameHandle];
TurnOffStartTrap: PROCEDURE;
NumberSwappedIn: PROCEDURE RETURNS [CARDINAL];
SwapInUserCode: PROCEDURE;
UnlockUserCode: PROCEDURE;
```

BootAbort: SIGNAL;

BuildNucleus: PROGRAM;

Bootmesa, BootImage, BootScript: PROGRAM [data: POINTER TO BootData];

```
BootData: TYPE = RECORD [
  imageFileRoot: STRING,
  imageFile: SegmentDefs.FileHandle,
  imageStream: StreamDefs.StreamHandle,
  image: POINTER TO ImageDefs.ImageHeader,
  vmFile: SegmentDefs.FileHandle,
  bsheader: POINTER TO BootScriptHeader,
  headerSeg: SegmentDefs.FileSegmentHandle,
  residentCodeSeg: FakeSegmentHandle,
  vmTableSeg: FakeSegmentHandle,
  AVbase, GFTbase, SDbase: POINTER,
  tableBase: POINTER];
```

END...