

```
-- LoadStateDefs.mesa
-- Last Modified by Sandman, March 23, 1978 10:17 AM
```

DIRECTORY

```
AltoDefs: FROM "altodefs",
AltoFileDefs: FROM "altofiledefs",
ControlDefs: FROM "controldefs",
SegmentDefs: FROM "segmentdefs";
```

LoadStateDefs: DEFINITIONS =

BEGIN

```
LoadState: TYPE = POINTER TO LoadStateObject;
```

```
LoadStateObject: TYPE = MACHINE DEPENDENT RECORD [
  bcds: ARRAY [0..MaxBcDs) OF BcdAddressObject,
  gft: ARRAY [0..0) OF ConfigGFI];
```

```
LoadStateGFT: TYPE = DESCRIPTOR FOR ARRAY OF ConfigGFI;
```

```
ConfigGFI: TYPE = RECORD [
  config: ConfigIndex,
  gfi: GFTIndex];
```

```
GFTIndex: TYPE = ControlDefs.GFTIndex;
```

```
ConfigIndex: TYPE = [0..177B];
ConfigNull: ConfigIndex = LAST[ConfigIndex];
```

```
MaxBcDs: CARDINAL = AltoDefs.PageSize/SIZE[BcdAddressObject];
```

```
BcdArrayLength: CARDINAL = SIZE[BcdAddressObject]*MaxBcDs;
```

```
BcdAddress: TYPE = POINTER TO BcdAddressObject;
```

```
BcdAddressObject: TYPE = MACHINE DEPENDENT RECORD [
  fp: AltoFileDefs.FP,
  da: AltoFileDefs.vDA,
  base: CARDINAL,
  fill: [0..77B],
  unresolved, exports: BOOLEAN,
  pages: BcdPageCount];
```

```
BcdPageCount: TYPE = [1..256];
```

```
EnumerationDirection: TYPE = {recentfirst, recentlast} ;
Relocation: TYPE = DESCRIPTOR FOR ARRAY OF GFTIndex;
FileSegmentHandle: TYPE = SegmentDefs.FileSegmentHandle;
```

```
MapConfigToReal: PROCEDURE [cgfi: GFTIndex, config: ConfigIndex] RETURNS [rgfi: GFTIndex];
MapRealToConfig: PROCEDURE [rgfi: GFTIndex] RETURNS [cgfi: GFTIndex, config: ConfigIndex];
EnterGfi: PROCEDURE [cgfi, rgfi: GFTIndex, config: ConfigIndex];
```

```
InitializeRelocation: PROCEDURE [config: ConfigIndex] RETURNS [rel: Relocation];
ReleaseRelocation: PROCEDURE [rel: Relocation];
```

```
InputLoadState: PROCEDURE RETURNS [nbcDs: ConfigIndex];
```

```
UpdateLoadState: PROCEDURE [
  bcd: ConfigIndex, bcdseg: FileSegmentHandle, unresolved, exports: BOOLEAN];
```

```
RemoveConfig: PROCEDURE [rel: Relocation, config: ConfigIndex];
```

```
LoadStateFull: ERROR;
```

```
ReleaseLoadState: PROCEDURE;
```

```
BcdSegFromLoadState: PROCEDURE [bcd: ConfigIndex] RETURNS [bcdseg: FileSegmentHandle];
```

```
BcdHasUnresolvedImports: PROCEDURE [bcd: ConfigIndex] RETURNS [unresolved: BOOLEAN];
```

```
SetUnresolvedImports: PROCEDURE [bcd: ConfigIndex, unresolved: BOOLEAN];
```

```
BcdHasExports: PROCEDURE [bcd: ConfigIndex] RETURNS [exports: BOOLEAN];
```

```
EnumerateLoadStateGFT: PROCEDURE [
  proc: PROCEDURE [rgfi: GFTIndex, cgfi: GFTIndex, config: ConfigIndex] RETURNS [BOOLEAN]]
  RETURNS [GFTIndex];
```

```
EnumerateLoadStateBcDs: PROCEDURE [dir: EnumerationDirection,
  proc: PROCEDURE [ConfigIndex, BcdAddress] RETURNS [BOOLEAN]]
  RETURNS [config: ConfigIndex, bcd: BcdAddress];
```

```
GetInitialLoadState: PROCEDURE RETURNS [initstateseg: FileSegmentHandle];
GetLoadState: PROCEDURE RETURNS [stateseg: FileSegmentHandle];
SetLoadState: PROCEDURE [stateseg: FileSegmentHandle];
ResetLoadState: PROCEDURE [initialGFT: LoadStateGFT];
UpdateLoadStateDA: PROCEDURE [bcdseg: FileSegmentHandle];

END....
```