

-- ImageDefs.mesa Modified by: Sandman, March 31, 1978 2:24 PM

DIRECTORY

```
AltoDefs: FROM "altodefs",
AltoFileDefs: FROM "altofiledefs",
BcdDefs: FROM "bcddefs",
ControlDefs: FROM "controldefs",
DiskDefs: FROM "diskdefs",
Mopcodes: FROM "mopcodes",
NovaOps: FROM "novaops",
SDDefs: FROM "sddefs",
SegmentDefs: FROM "segmentdefs",
StringDefs: FROM "stringdefs";
```

```
ImageDefs: DEFINITIONS SHARES DiskDefs =
PRIVATE BEGIN
```

```
FirstImageDataPage: AltoDefs.PageNumber = 2;
HeaderPages: CARDINAL = 1;
```

```
MapItem: TYPE = MACHINE DEPENDENT RECORD [
  page: [0..255],
  count: [0..127],
  body: SELECT tag:* FROM
    normal => NULL,
    change => [
      da: DiskDefs.DA,
      base: CARDINAL],
  ENDCASE];
```

```
VersionID: CARDINAL = 03168; -- must match in Mesa.bcp1
```

ImagePrefix:

```
TYPE = MACHINE DEPENDENT RECORD [
  versionident: CARDINAL,
  version, creator: BcdDefs.VersionStamp,
  options: WORD,
  leaderDA: AltoFileDefs.vDA,
  state: ControlDefs.StateVector,
  loadStateBase, initialLoadStateBase: CARDINAL,
  type: ImageType,
  fill: [0..37B],
  loadStatePages: AltoDefs.PageCount];
```

```
ImageType: TYPE = {bootmesa, makeimage, checkfile, other};
```

```
ImageHeader: TYPE = MACHINE DEPENDENT RECORD [
  prefix: ImagePrefix,
  map: ARRAY [0..0) OF MapItem];
```

```
MapSpace: CARDINAL = AltoDefs.PageSize-SIZE[ImagePrefix]-1;
```

```
FileRequest: PUBLIC TYPE = MACHINE DEPENDENT RECORD[
  link: POINTER TO FileRequest,
  file: SegmentDefs.FileHandle,
  access: SegmentDefs.AccessOptions,
  body: SELECT tag:* FROM
    short => [fill: [0..777B], name: STRING],
    long => [fill: [0..777B], name: StringDefs.SubStringDescriptor],
  ENDCASE];
```

```
AddFileRequest: PUBLIC PROCEDURE [POINTER TO FileRequest] =
  MACHINE CODE BEGIN Mopcodes.zKFCB, SDDefs.sAddFileRequest END;
```

```
MakeImage: PUBLIC PROCEDURE [name: STRING];
MakeUnMergedImage: PUBLIC PROCEDURE [name: STRING];
SwapOutDuringMakeImage: PUBLIC SIGNAL;
SwapTrapDuringMakeImage: PUBLIC SIGNAL;
SwapErrorDuringMakeImage: PUBLIC SIGNAL;
NoRoomInImageMap: PUBLIC SIGNAL;
InvalidImageName: PUBLIC SIGNAL;
```

```
MakeCheckPoint: PUBLIC PROCEDURE [name: STRING];
SwapOutDuringMakeCheck: PUBLIC SIGNAL;
SwapTrapDuringMakeCheck: PUBLIC SIGNAL;
SwapErrorDuringMakeCheck: PUBLIC SIGNAL;
```

```
NoRoomInCheckMap: PUBLIC SIGNAL;

RunImage: PUBLIC PROCEDURE [file: SegmentDefs.FileSegmentHandle];
InvalidImage: PUBLIC SIGNAL;
NoRoomForLoader: PUBLIC SIGNAL;

ImageVersion: PUBLIC PROCEDURE RETURNS [BcdDefs.VersionStamp];

CleanupItem: PUBLIC TYPE = RECORD [
  link: POINTER TO CleanupItem,
  mask: CARDINAL,
  proc: CleanupProcedure];

CleanupProcedure: PUBLIC TYPE = PROCEDURE [why: CleanupReason];

CleanupMask: PUBLIC ARRAY CleanupReason OF CARDINAL =
  [1, 2, 4, 10B, 20B, 40B, 100B, 200B, 400B];
AllReasons: PUBLIC CARDINAL = 177777B;
CleanupReason: PUBLIC TYPE = NovaOps.CleanupReason;
NovaOpcode: TYPE = NovaOps.NovaOpcode;

AddCleanupProcedure, RemoveCleanupProcedure: PUBLIC PROCEDURE [POINTER TO CleanupItem];
UserCleanupProc: PUBLIC CleanupProcedure;

StopMesa: PUBLIC PROCEDURE =
  MACHINE CODE BEGIN Mopcodes.zLI0+LOOPHOLE[NovaOpcode[Finish], CARDINAL]; Mopcodes.zSTOP END;
AbortMesa: PUBLIC PROCEDURE =
  MACHINE CODE BEGIN Mopcodes.zLI0+LOOPHOLE[NovaOpcode[Abort], CARDINAL]; Mopcodes.zSTOP END;
PuntMesa: PUBLIC PROCEDURE =
  MACHINE CODE BEGIN Mopcodes.zLI0+LOOPHOLE[NovaOpcode[Punt], CARDINAL]; Mopcodes.zSTOP END;

END..
```