

```
-- file ComData.Mesa
-- last modified by Satterthwaite, March 16, 1978 10:44 AM
```

DIRECTORY

```
StreamDefs: FROM "streamdefs",
BcdDefs: FROM "bcddefs",
SymbolTableDefs: FROM "symboltabledefs",
SymDefs: FROM "symdefs",
TreeDefs: FROM "treedefs";
```

ComData: PROGRAM =

PUBLIC

BEGIN

OPEN SymDefs;

-- shared instance of SymbolTable

```
ownSymbols: SymbolTableDefs.SymbolTableBase;
```

-- basic types (initialized in Pass1)

```
typeINTEGER, typeBOOLEAN, typeCHARACTER, typeREAL, typeSTRING: CSEIndex;
typeLOCK, typeCONDITION: CSEIndex;
```

```
idANY: ISEIndex;
```

```
idINTEGER, idCARDINAL, idCHARACTER, idBOOLEAN, idREAL, idSTRING: ISEIndex;
idLOCK: ISEIndex;
```

-- anonymous entry for undeclared ids

```
seAnon: ISEIndex;
```

-- symbolic constants

```
idTRUE, idFALSE: ISEIndex;
tCO, tC1: TreeDefs.TreeLink;
idUNWIND: ISEIndex;
```

-- global info describing module

```
definitionsOnly: BOOLEAN;
monitored: BOOLEAN;
stopping: BOOLEAN;
outerCtx: CTXIndex;           -- predefined identifiers
moduleCtx: CTXIndex;         -- module identifiers
importCtx: CTXIndex;         -- import id context
mainCtx: CTXIndex;           -- main program's context
bodyRoot: BTIndex;
mainBody: CBTIndex;
nBodies: CARDINAL;
nSigCodes: CARDINAL;
defBodyLimit: INTEGER;
linkBase: CARDINAL;          -- global control links (externals, etc)
linkCount: CARDINAL;
```

-- compilation options

```
warnings: BOOLEAN;
xref: BOOLEAN;
sort: BOOLEAN;
dStar: BOOLEAN;
```

-- variables used for error reporting

```
nErrors: CARDINAL;
nWarnings: CARDINAL;
bodyIndex: CBTIndex;         -- current body
textIndex: CARDINAL;         -- start index of line with error
```

-- input

```
sourceFile: STRING;
sourceStream: StreamDefs.StreamHandle;
rootFile: STRING ← [40];
```

-- output

```
compilerVersion: BcdDefs.VersionStamp;

netNumber: CARDINAL;
sourceVersion, objectVersion: BcdDefs.VersionStamp;

objectStream: StreamDefs.StreamHandle;
errorStream: StreamDefs.StreamHandle;
```

```
objectBytes, objectFrameSize: CARDINAL;
fgTable: DESCRIPTOR FOR ARRAY OF FGEntry;
codeSeg, symSeg: BcdDefs.SGRecord;
mtRoot: BcdDefs.MTRecord;
MTRootSize: CARDINAL = SIZE[BcdDefs.MTRecord]-SIZE[BcdDefs.FrameFrag];
fixupLoc: StreamDefs.StreamIndex;
END.
```