

```
-- file: Output.mesa
-- edited by Sandman July 17, 1977 6:00 PM
```

DIRECTORY

```
IODefs: FROM "iodefs",
OutputDefs: FROM "outputdefs",
SegmentDefs: FROM "segmentdefs",
StreamDefs: FROM "streamdefs",
StringDefs: FROM "stringdefs",
TimeDefs: FROM "timedefs";
```

Output: PROGRAM

```
IMPORTS IODefs, SegmentDefs, StreamDefs, StringDefs, TimeDefs
EXPORTS OutputDefs =
```

PUBLIC BEGIN

```
outStream: StreamDefs.StreamHandle ← NIL;
```

```
PutTab: PROCEDURE = BEGIN PutChar[IODefs.TAB]; RETURN END;
PutCR: PROCEDURE = BEGIN PutChar[IODefs.CR]; RETURN END;
```

```
PutChar: PROCEDURE [c: CHARACTER] =
BEGIN
outStream.put[outStream,c];
END;
```

```
PutString: PROCEDURE [s: STRING] =
BEGIN
i: CARDINAL;
FOR i IN [0..s.length) DO
outStream.put[outStream,s[i]];
ENDLOOP;
END;
```

```
PutTime: PROCEDURE [t: TimeDefs.PackedTime] =
BEGIN
OPEN TimeDefs;
s: STRING ← [20];
AppendDayTime[s,UnpackDT[t]];
PutString[s];
RETURN
END;
```

```
PutNumber: PROCEDURE [val: CARDINAL, format: IODefs.NumberFormat] =
BEGIN
IODefs.OutNumber[outStream,val,format];
RETURN
END;
```

```
PutDecimal: PROCEDURE [val: CARDINAL] =
BEGIN
IODefs.OutNumber[outStream,val,[10,FALSE,FALSE,1]];
RETURN
END;
```

```
PutOctal: PROCEDURE [val: UNSPECIFIED] =
BEGIN
IODefs.OutNumber[outStream,val,[8,FALSE,TRUE,1]];
IF val ~IN[0..7] THEN outStream.put[outStream,'B'];
RETURN
END;
```

```
OpenOutput: PROCEDURE [root: STRING, ext: STRING] =
BEGIN OPEN StringDefs, SegmentDefs;
i: CARDINAL;
name: STRING ← [40];
AppendString[name,root];
FOR i IN [0..name.length) DO
IF name[i] = '.' THEN
BEGIN name.length ← i; EXIT END;
ENDLOOP;
AppendString[name,ext];
outStream ← StreamDefs.CreateByteStream[
Newfile[name,Write+Append,DefaultVersion],Write+Append];
END;
```

```
CloseOutput: PROCEDURE =  
  BEGIN  
    outputStream.destroy[outputStream];  
    outputStream ← NIL;  
  END;
```

```
END...
```