

Figure 10.8 Pseudocode for a double-level control break procedure.

MAIN-MODULE

START

```

PERFORM Initialize-Rtn
PERFORM UNTIL there are no more records
    READ a Record
    AT END
        Move 'NO ' to Are-There-More-Records
    NOT AT END
        PERFORM Detail-Rtn
    END-READ
END-PERFORM
PERFORM Dept-Control-Break
PERFORM End-of-Job-Rtn
STOP
    
```

INITIALIZE-RTN

```

Open the Files
Move today's date to WS-Date
    
```

DETAIL-RTN

```

EVALUATE TRUE
    WHEN First-Record = 'YES'
        Move Slsno-In to Hold Area
        Move Dept-No to Hold Area
        PERFORM Heading-Rtn
        Move 'NO ' to First-Record
    WHEN there is a Dept-No change
        PERFORM Dept-Control-Break
    WHEN there is a Slsno-In change
        PERFORM Sales-Control-Break
END-EVALUATE
Add Amt to a Total
    
```

HEADING RTN

Write the Headings

DEPT-CONTROL-BREAK

```

PERFORM Sales-Control-Break
Move Dept-No Total to Output Area
Write a Record
Initialize Dept-No Total
Store Dept-No
PERFORM Heading-Rtn
    
```

SALES-CONTROL-BREAK

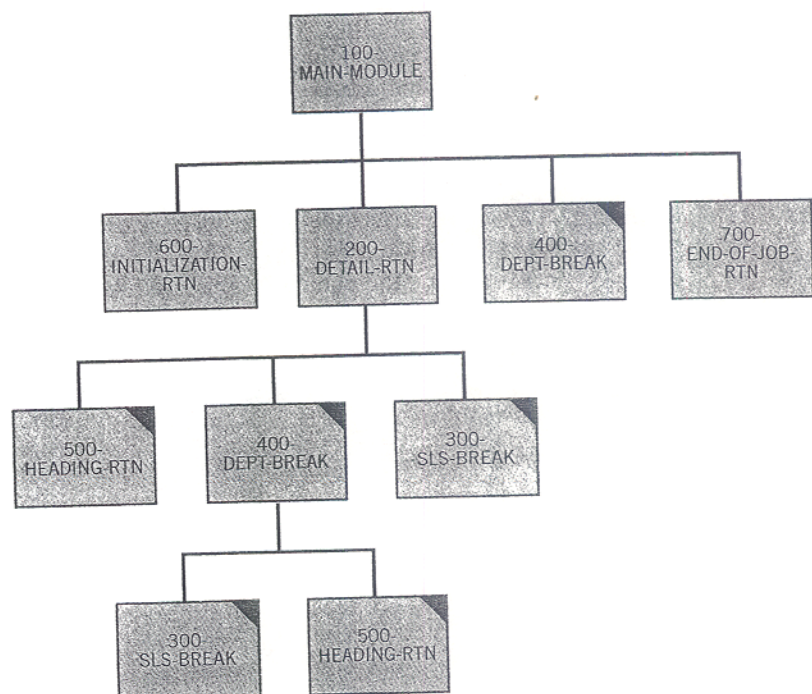
```

Move Slsno-In Total to Output Area
Write a Record
Add Slsno-In Total to Dept-No Total
Initialize Slsno-In Total
Store Slsno-In
    
```

END-OF-JOB-RTN

End-of-Job Operations

Figure 10.9 Hierarchy chart for a double-level control break procedure.



Note: A corner cut is made in the 300-SLS-BREAK, 400-DEPT-BREAK, and 500-HEADING-RTN procedures because they are each performed from two different modules.