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called by this advishes

Procedure calls and neturns are usually managed by a run-time stack called the control stack. Each live activation has an activation necord (sometimes called a frame) on the control stack, with the noot of the activation tree at the bottom, and the entire sequence of activation records on the stack corresponding to the bath in the activation true to the activation where control currently resides. The latter activation has its record at the stop of the stack.

The contents of activation records vary with the language being implemented. Here is a list of the kinds of data that might appear in an activation record.

Actual parameters. Returned values Control link_ Access link_ Saved machine status Temporanies

A general activation record

1) Temporary values, such as those arising from the evaluation of expressions, in cases where those temporaries cannot be held in registers. in registers.

2) Local data belonging to the procedure whose activation

record this is.

at in a procedure

A raved machine status, with information about the state of the machine just before the call to the procedure. This information sypically includes the neturn address and the contents of registers that were used by the calling procedure and that must be restored when the netwin occurs

An "access link" may be needed to locate data needed by the called procedure but found elsewhere, eg. in

another activation record.