COMPILEBANG

By: Nick Briggs (Briggs.pa@Xerox.com)

Required by TRILLIUM

This provides an interface to the compiler that avoids the interview for the common cases of in-core compilation. It contains a single function COMPILE!, and the Lispx and edit macros C:

(COMPILE! *X NOSAVE NOREDEFINE PRINTLAP*) [Function]

Calls the compiler to compile *X*. If *X* is a litatom, its definition is compiled and stored in the function cell unless *NOREDEFINE*, and the old definition if any is saved on the property list unless *NOSAVE*. No printing of lap or machine code is done unless *PRINTLAP*.

Thus, to simply compile the function BAR, do COMPILE!(BAR).

X may also be a list form. In this case, COMPILE! assumes that the user is interested just in seeing how that form would compile. The form is embedded in a Lambda expression and compiled. Of course, there is no function-cell to be stored into or saved.

C [Lispx Macro]

The LISPXMACRO C calls COMPILE!, with *PRINTLAP* on, on the next element of the input line. Thus, C BAR will compile, redefine, and save the old definition for BAR.

C (CONS) will show how a call to CONS would compile.

The editmacro C calls COMPILE! on the current expression if it is a list, or on the form of which the current expression is an element.