Patching a Trap

```
// Patching a trap
// An example of patching the GetNewDialog() trap. This patch
// does nothing but call the real GetNewDialog() trap.
#include <SetUpA4.h>
// Assumes inclusion of <MacHeaders>
#define _GetNewDialog
                         0xA97C
/* save regs not preserved by THINK C */
#define SaveRegs() \
    asm { movem.la0-a1/d0-d2,-(sp) }
/* restore regs not preserved by THINK C */
#define RestoreRegs() \
    asm { movem.l(sp)+,a0-a1/d0-d2 }
typedef pascal DialogPtr (*GetNewDialogProcPtr) (short, Ptr, WindowPtr);
GetNewDialogProcPtr gOldGetNewDialog;
extern void GetNewDialogJmp(void);
static pascal DialogPtr GetNewDialogHook(short dlogID, Ptr storage,
                                                     WindowPtr behind)
{
                  dlogPtr;
    DialogPtr
    SaveRegs();
    SetUpA4();
    dlogPtr = gOldGetNewDialog(dlogID, storage, behind);
    RestoreA4();
    RestoreRegs();
    return dlogPtr;
}
static void InstallPatch(void)
    gOldGetNewDialog =
                  (GetNewDialogProcPtr) NGetTrapAddress (_GetNewDialog);
                  NSetTrapAddress((long)GetNewDialogHook,
                  _GetNewDialog);
}
```