# Addendum to the SACLIB User's Guide*

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## 1 Availability

SACLIB is installed on ... in the directory "`~saclib/saclib`".

## 2 Environment

It is recommended to define an environment variable "`$saclib`" containing the name of the SACLIB directory. This can be done by adding the line

```
setenv saclib ~saclib/saclib
```

to your "`.login`" or "`.cshrc`" file. SACLIB header and library files should then only be accessed by using this variable. If the installation is moved to a different directory you will only have to change the definition of this variable.

If you want to use the shell scripts provided with SACLIB, the environment variable "`$saclib`" is required, and you also need

```
set path=($path $saclib/bin)
```

in your "`.login`" or "`.cshrc`" file.

## 3 Compiling and Linking

The compiled library is "`$saclib/lib/saclib.a`", an optimized version is "`$saclib/lib/saclibo.a`", a version compiled with the debug option is "`$saclib/lib/saclibd.a`", and the header files are in "`$saclib/include`".

Figure 1 shows what a makefile for linking with the standard library might look like.

*SACLIB version 1.0, "Addendum" version 1.0.

```
CFLAGS  = -DNO_SACLIB_MACROS -I${saclib}/include
LIB = ${saclib}/lib/saclib.a

OBJS = example.o

example: $(OBJS)
        ${CC} $(OBJS) $(LIB) -o example
```

Figure 1: A sample makefile.

# 4 Additional Documentation, Tools, etc.

In "`$saclib/example`" you will find sample programs which are a bit more sophisticated than the ones given in the "SACLIB User's Guide". They should be of help in learning how to work with SACLIB.

There are also two shell scripts which should facilitate searching for a certain algorithm and displaying SACLIB functions:

**sdesc** takes a regular expression in the style of `grep` and lists all SACLIB functions whose description matches the regular expression.

**sman** takes a full SACLIB function name and displays the corresponding source file.

Calling the scripts without parameters produces a usage message.

For experimenting with SACLIB functions interactively, use "`isac`", which gives you a simple shell environment from which you can call all SACLIB functions.

# 5 Where to Look for Help

Apart from sending e-mail to the adresses given in Section 1.3 of the "User's Guide" you can also ask ...