Recipe for “SICB++”

- Login to **RSPLUS**
- Create a directory for your project and go to it:
  - *mkdir sicb++*
  - *cd sicb++*
- Execute script to set up necessary environment:
  - *~cattaneb/public/init_sicb++*
  - > creates AnalMain working directory, and links to event model directories:

```
drwxr-xr-x   3 cattaneb z5        2048 Jul 20 17:13 AnalMain
lrwxr-xr-x   1 cattaneb z5          39 Jul 20 17:10 Class_B -> /afs/cern.ch/user/b/binko/event/Class_B
lrwxr-xr-x   1 cattaneb z5          36 Jul 20 17:10 LHCb -> /afs/cern.ch/user/b/binko/event/LHCb
lrwxr-xr-x   1 cattaneb z5          46 Jul 20 17:10 TransientEvent -> /afs/cern.ch/user/b/binko/event/TransientEvent
lrwxr-xr-x   1 cattaneb z5          46 Jul 20 17:10 TransientStore -> /afs/cern.ch/user/b/binko/event/TransientStore
```

  - > Copies into AnalMain example suanal, Makefile etc:

```
-rw-r--r--   1 cattaneb z5         716 Jul 21 09:42 suanal.cpp
-rw-r--r--   1 cattaneb z5        1142 Jul 21 09:41 sicb.dat
-rw-r--r--   1 cattaneb z5        3155 Jul 21 09:41 GNUmakefile
-rw-r--r--   1 cattaneb z5         393 Jul 21 09:41 generMain.cpp
-rw-r--r--   1 cattaneb z5         937 Jul 21 09:41 readFileMain.cpp
-rw-r--r--   1 cattaneb z5         301 Jul 21 09:41 suinit.cpp
-rw-r--r--   1 cattaneb z5         300 Jul 21 09:41 sulast.cpp
```

- Make an executable:
  - *cd AnalMain*
  - *gmake*
- And run!
  - *AIX/readFileMain*

What can you do next?

- Edit suanal.cpp (and/or suinit.cpp, sulast.cpp)

- Make the full SICB version (generMain) by changing the MAIN program in the GNUmakefile:

```
#-------------------------------------
# C++ executable name (optional).  (The source file name is ${MAIN}.${CPP_EXT}.)
#-------------------------------------
MAIN       =readFileMain
# MAIN       =generMain
```

- Change the steering cards (sicb.dat !) (generMain uses all the cards, readFilemain only the I/O definition)
- Ask for more AFS disk quota!

- There are examples of suanal.cpp in the directory *Class_B/examples* accessible from your top package directory
  - e.g. *Class_B/Examples/example3/myanal.cc* has an example of booking and filling histograms