



The GUI Terminal

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The Eternal War

- The command line
 - familiar
 - scriptable/more control
 - easy to find help (man page, -h flag)
- The GUI
 - presents more info
 - more intuitive controls
 - not scriptable/less control
 - often hard to find needed settings



A Road to Peace

- Open a remote terminal within Eclipse
- Create mechanisms to interoperate between the GUI and the command line
- Calling "ptp file.c" in the remote terminal causes an editor window to appear in the Eclipse IDE.
- Other commands allow interaction with the command history, menus, etc.



The Prototype

C/C++ - SyncHello/Makefile - Eclipse Platform

File Edit Source Refactor Navigate Search Project Run Feedback Sample Menu Services Window Help

Quick Access Resource C/C++

SyncHello.cpp Makefile Makefile

```
CXXFLAGS = -O2 -g -Wall -fmessage-length=0
OBJS = SyncHello.o
LIBS =
TARGET = SyncHello
$(TARGET): $(OBJS)
$(CXX) -o $(TARGET) $(OBJS) $(LIBS)
all: $(TARGET)
1
```

Terminal History

mike1.hpc.lsu.edu/SyncHello

0	<input type="checkbox"/>	ptp SyncHello/Makefile	X
1	<input type="checkbox"/>		X
2	<input type="checkbox"/>		X
3	<input type="checkbox"/>		X
4	<input type="checkbox"/>		X
5	<input type="checkbox"/>		X
6	<input type="checkbox"/>		X
7	<input type="checkbox"/>		X
8	<input type="checkbox"/>		X
9	<input type="checkbox"/>		X

Problem Tasks Console Properti GIG Terminal Remote Progress Error Lo

Remote Host

```
[sbrandt@mike1 ~]$ ptp SyncHello/SyncHello.cpp
[sbrandt@mike1 ~]$ ptp SyncHello/SyncHello.cpp

[sbrandt@mike1 ~]$ ptp SyncHello/*
[sbrandt@mike1 ~]$ ptp SyncHello/Makefile
[sbrandt@mike1 ~]$
```

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