Monitor
(8180)

helios.ececs.uc.edu
Start the Active Client

Active Client
(20287)

student.comp

Monitor
(8180)

helios.ececs.uc.edu
Make a connection to the Monitor

Active Client Code:

```java
Socket skt = new Socket("helios.ececs.uc.edu", 8180);
out = new PrintWriter(skt.getOutputStream(), true);
isr = new InputStreamReader(skt.getInputStream());
is = new BufferedReader(isr);
is.readLine();
```
Receive IDENT message group from Monitor

Login Protocol:
COMMENT: Monitor Version 2.2
REQUIRE: IDENT
WAITING:

Monitor

helios.ececs.uc.edu

Active Client
(20287)
Send IDENT command to Monitor

Login Protocol:
IDENT FRANCO

helios.ececs.uc.edu
Get PASSWORD directive from Monitor

Login Protocol:
RESULT: IDENT
REQUIRE: PASSWORD
WAITING:

Active Client (20287)

Monitor (8180)

helios.ececs.uc.edu
Send Password to Monitor

Active Client (20287) -- (8180) --> Monitor (8180)

Login Protocol:
PASSWORD EYES_ARE_BLUE

helios.ececs.uc.edu
Get HOST_PORT directive & cookie from Monitor

Login Protocol:

RESULT: PASSWORD UYERWEEIOUYTUIU
REQUIRE: HOST_PORT
WAITING:
Start Server

Server
(21567)

Active Client
(20287)

Monitor
(8180)

Login Protocol:

helios.ececs.uc.edu
Send Server port (host port) to Monitor

Server
(21567)

Active Client
(20287)

Monitor
(8180)

Login Protocol:
HOST_PORT gauss.ececs.uc.edu 21567
Get ALIVE directive from Monitor

Are You Alive Transaction:
COMMENT: Monitor Version 2.2
REQUIRE: IDENT
WAITING:

COMMENT: Monitor Version 2.2
REQUIRE: IDENT
WAITING:
Send IDENT command to Monitor

Server (21567) → Monitor (8180)
Active Client (20287) → Monitor (8180)

helios.ececs.uc.edu

Are You Alive Transaction:
IDENT FRANCO
Get checksum from Monitor

Server
(21567)

Active Client
(20287)

Monitor
(8180)

helios.ececs.uc.edu

Are You Alive Transaction:

PARTICIPANT_PASSWORD_CHECKSUM: 78a74b94cd3778ef36635
RESULT: IDENT
REQUIRE: ALIVE
WAITING:
Send ALIVE command to Monitor

Server (21567) -> Monitor (8180)

Active Client (20287)

Are You Alive Transaction:
ALIVE UYERWEEIOUYTUUIU

helios.ececs.uc.edu
Complete ALIVE transaction

Server
(21567)

Active Client
(20287)

Monitor
(8180)

helios.ececs.uc.edu

Are You Alive Transaction:
RESULT: ALIVE Identity has been verified
REQUIRE: QUIT
WAITING:
Complete ALIVE transaction

Are You Alive Transaction:
QUIT

Monitor
(8180)

Server
(21567)

Active Client
(20287)

helios.ececs.uc.edu
Complete ALIVE transaction

Are You Alive Transaction:
RESULT: QUIT
Complete Login transaction

Login Protocol:
RESULT: HOST_PORT GAUSS.ECECS.UC.EDU 21567
Active Client may issue commands for 3 minutes. Server waits for ALIVE requests from Monitor.