















JCSP Process Structure

























































































Anonymous Channels

Your friend inputs the location information (of your unregistered channel) via an existing channel:
NetChannelLocation outLocation = (NetChannelLocation) fromMyFriend.read ();
And can then construct her end of the channel:
One2NetChannel out = new One2NetChannel (outLocation);
The One2NetChannel constructor has been given the information it would have got from the CNS (had it been given a registered name to resolve).
You and your friends can now communicate over the unregistered channel.





























```
Ring worker code
One2NetChannel toChainer =
  = new One2NetChannel ("jcsp://chainer.myrtle.ukc.ac.uk");
Net2OneChannel in = new Net2OneChannel ();
NetChannelLocation inLocation = in.getLocation ();
toChainer.write (inLocation);
NetChannelLocation outLocation = (NetChannelLocation) in.read ();
One2NetChannel out = new One2NetChannel (outLocation);
int[] info = (int[]) in.read ();
                                          // wait for ring sync
final int MY_ID = info[0];
                                           // (optional)
final int N NODES = info[1];
                                           // (optional)
info[0]++;
if (info[0] < info[1]) out.write (info); // pass on ring sync</pre>
new WorkProcess (MY_ID, N_NODES, in, out).run ();
```




























Networked Class Loading

- By default, objects sent across a networked channel (or connection) use Java serialization.
- This means the receiving JVM is expected to be able to load (or already have loaded) the class files needed for its received objects.
- However, JCSP networked channels/connections can be set to communicate those class files *automatically* (if the receiver can't find them locally).
- Machine nodes cache those class files locally in case they themselves need to forward them.

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