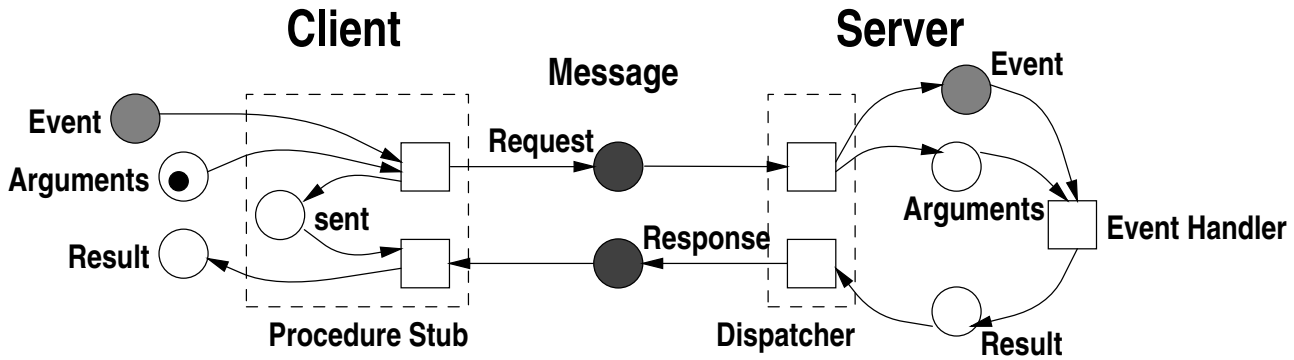
$Id: 12-RPC.fig,v 1.2 1997/01/18 21:11:52 gunther Release $, © 1997 by Gunther Schadow, all rights reserved.

HL7 message exchange can be regarded as a remote procedure call (RPC).



Each event is implemented by a procedure, with the segments as arguments.
The client procedure sends a request messages and waits for the server to send a the proper response message.
The server waits for any request message from a client, it then calls the appropriate local event handler procedure, and sends its return value back as a response message.

HL7 server programming made easy

with ProtoGen's ANYmsg server.

1. Declare and write event handler functions,

```
ACKmsg *admit(ADT_A01msg *request);
ACKmsg *transfer(ADT_A02msg *request);
ACKmsg *discharge(ADT_A03msg *request);
```

2. Register event handlers,

```
ANYmsg server;
server.register_event(UniMesIdCode::ADT_A01val, admit);
server.register_event(UniMesIdCode::ADT_A02val, transfer);
server.register_event(UniMesIdCode::ADT_A02val, discharge);
```

3. Activate the server.

```
server.serve(address);
```

There is even more potential for automation!

Client and server stub generated from transaction profiles.