TINE Web Interfaces

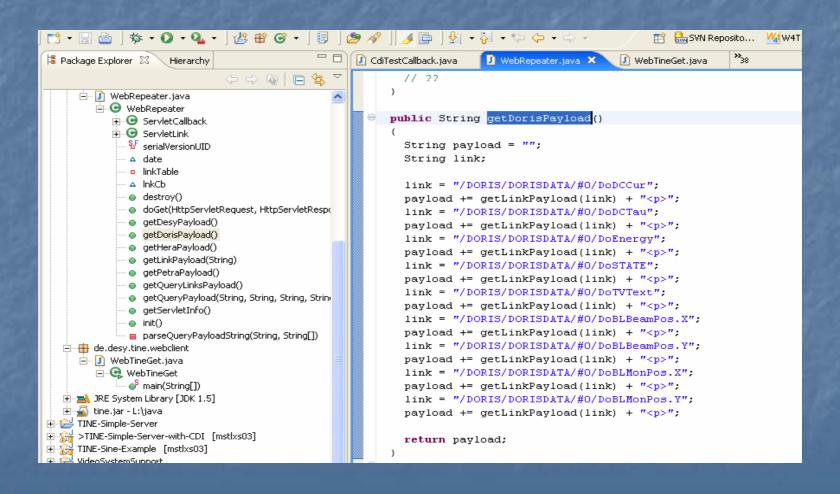
Philip Duval, DESY Uwe Ristau, EMBL G. Cox, Daresbury

TINE WebMex

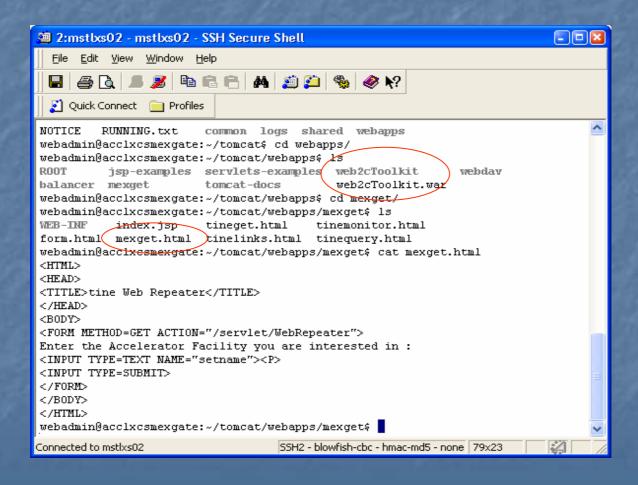
- a la "NetMex" (MEX = Machine-Experiment data eXchange)
- Tine Webmex servlet runs on Webserver (e.g. Tomcat) in the DMZ
 - Access control parameters via TINE java API.
 - Provides information via http
- Gateway server on other side of DMZ issues http get()s at 1 Hz.

WebRepeater Servlet:

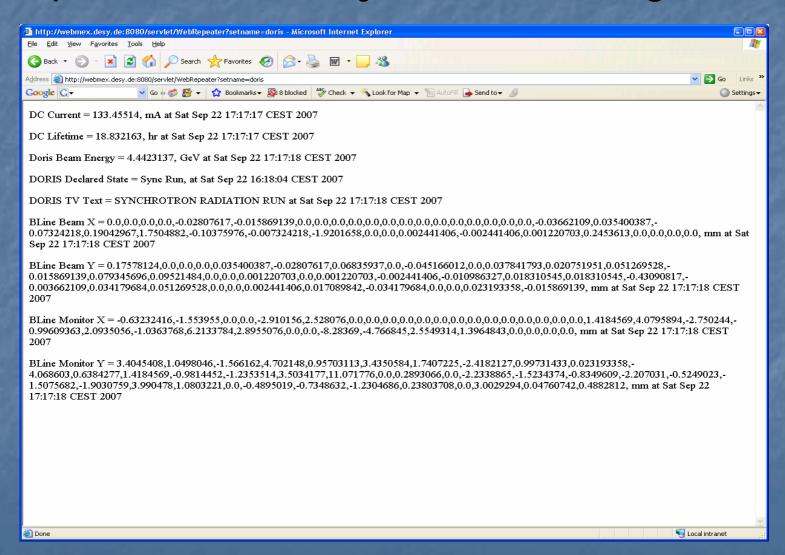
(Currently dedicated to DESY machines)



mexget.html



http://webmex.desy.de:8080/mexget.html



Webmex Gateway Server

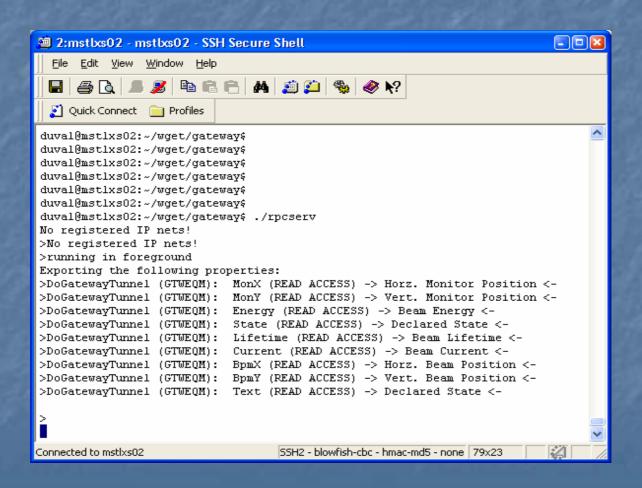
dorisRecords[i].ts):

```
{ // fill in the destinations
  filename[0] = 0;
  strcat(filename, "/servlet/WebRepeater?setname=DORIS")
                                                                      Initialize the url strings
  sprintf(url, "GET %s HTTP/1.0\n\n", filename);
  sprintf(hostname, "mexgate.desy.de");

u fill in the server sockaddr:
  memset(&serverAddr, 0, sizeof(serverAddr))
  serverAddr.sin family = AF INET;
  serverAddr.sin_port = htons(port);
  if ((host=gethostbyname(hostname)) == NULL &&
      (host=gethostbyaddr(hostname,strlen(hostname),AF_INET)) == NULL)
      perror("gethostbyname");
      feclog("cannot find host %s", hostname);
      exit(1);
  memcpy(&serverAddr.sin_addr,host->h_addr,sizeof(struct in_addr));
  initDone = -1:
if ((sck=socket(AF_INET,SOCK_STREAM,0)) < 0 )</pre>
  perror("socket");
  feclog("cannot get tcp socket !");
  return top_socket_error;
                                                                           Connect to web server
if (connect(sck,(st)ruct sockaddr *)&serverAddr,sizeof(serverAddr)) < 0)
  perror("connect");
  feclog("cannot connect to host %s",hostname);
  ccerr(tcp_connect_error);
n = write(sck,url,strlen(url));
                                                           Send the Request
for (i = 0, n = 0; i < 3; i++)
  n + f read(sok,&buf[n],4096-n);
  p = getContentSize(buf);
  if (n >= p) break;
                                                                            Get the Reply
if (n \rightarrow 0)
  if (n > 4095) n = 4095;
  buf[n] = 0;
  for (i=0; i<nDorisRecords; i++)</pre>
  cc = parseOutput(dorisRecords[i].tag,
                                                          Parse the Results
                   dorisRecords[i].siz.
                   dorisRecords[i].fval,
                   dorisRecords[i].ival,
                   dorisRecords[i].sval,
```

Repeat @ 1Hz!

Tine Web Gateway Server for DORIS



TINE PHP Interface

(Graham Cox, Daresbury)

- Dynamic html (Apache, not Tomcat!)
- Server-side Scripting
- Command Line Interface
- Stand-alone Graphical Applications

