gridtest.sas

options nosource; /* Do not show source when running... */

/* The grdsvc_enable call will go out to the SAS Metadata Server and */
/* find the SAS Grid Server definition. A return code of 0 means that */
/* all signons will use the grid. A non-0 return code means that there */
/* is a problem that should be investigated. */
%let SasAppSvr=SASApp;

/* This program assumes a SAS application server of SASMain. If you */
/* are using SASApp or some other SAS application server, you must */
/* modify the enable and nodes function calls to specify your SAS */
/* application server. */

%put; %put Trying to enable the grid for grid server &SasAppSvr...;
%let gerc=%sysfunc(grdsvc_enable(_all_,resource=&SasAppSvr));
%put; %put Grid enable return code=&gerc (0 indicates grid was enabled);

/* Define a macro to loop to make sure that the grid nodes have been */
/* set up correctly. */

%macro loop;
/* If the grdsvc_enable call worked, try to signon to all nodes */
%if (&gerc = 0) %then %do;
    /* The grdsvc_nnodes call will provide the number of grid nodes */
    /* available in the grid. */
    %let nnodes=%sysfunc(grdsvc_nnodes(resource=&SasAppSvr));
    %put; %put Number of grid nodes=&nnodes;

    /* You can view the progress of the signons using the Grid Manager. */
    /* Watch for Job Names such as SASGrid:xxxx where xxxx is the value*/
    /* of the sysjobid of this SAS session. */
    %put; %put Job Name as it will appear in Grid Manager=SASGrid:&sysjobid;%put;

    /* Loop through all possible grid nodes */
    %do i=1 %to &nnodes;
      /* Signon to the next grid node */
      signon grdn&i cmacvar=SignonStatus;

      /* If the signon worked, put out information about the node */
      %if (&SignonStatus = 0) %then %do;
        %let nodename=%sysfunc(grdsvc_getname(grdn&i));
        %let nodeaddr=%sysfunc(grdsvc_getaddr(grdn&i));
        %put; %put Session started on grid node: name, addr ===> &nodename,
        &nodeaddr;%put;
      %end;

      /* If the signon failed, put out a message */
      %else %do;
        %put; %put Signon failed to node &i;
      %end;
    %end;

    /* Stop SAS running on the grid nodes. */
    signoff _all_
  %end;
%mend loop;

/* If the grdsvc_enable failed, do not signon to any nodes */
%else %do;

 /* Stop SAS running on the grid nodes. */
 signoff _all_
%end;

/* If the grdsvc_enable failed, do not signon to any nodes */
gridtest.sas

%put;%put Grid not enabled, signon loop cancelled;
%end;

%mend;

/* Invoke the loop macro to issue the signons. */
/* Monitor the progress of the signon to the nodes using SAS */
/* Management Console and the Grid Manager. */
%loop;