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1      OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
SYMBOLGEN: Macro variable _SASWSTEMP_ resolves to /home/rickysaldanha0/.sasstudio/.images/918355cb-5fc7-4683-8ab1-1882f308e89d
SYMBOLGEN: Some characters in the above value which were subject to macro quoting have been unquoted for printing.
SYMBOLGEN: Macro variable GRAPHINIT resolves to GOPTIONS RESET=ALL GSFNAME=_GSFNAME;
68
69      /*****
SYMBOLGEN: Macro variable SYSUSERID resolves to rickysaldanha0
70      Note: This program will not run properly on z/OS.
71      Only Windows, Linux and UNIX are supported.
72      Values for PATH are CASE SENSITIVE.
73      *****/
74      %let path=/home/&sysuserid/EPG194;
75
76      /*+++++
77      WARNING: DO NOT ALTER CODE BELOW THIS LINE IN ANY WAY
78      +++++*/
79
80      /* Make sure path consistently uses forward slashes */
81      %let course=epg194;
82      %let path=%qsysfunc(translate(%superq(path),/,));
83      %let original_path=%superq(path);
84
85      /*options nomprint nosymbolgen nonotes nosource dlcreatedir;*/
86      options mprint symbolgen notes source;
87
88      %macro unpack(unzip /* Full path pointing to where to create the EPG194 data */
89                  ,zipfilename /* ZIP File name (used to download with PROC HTTP) */
90                  ,coursecode /* Represents the top level folder of the ZIP file; can be used for conditional logic */);
91
92      %local rc fid fileref fnum memname big_zip big_zip_found data_zip data_zip_found url;
93      %global cre8data_success path;
94      %let cre8data_success=0;
95      %let url=%str(http://dl.liveweb.sas.com/eldata/pg194_oda_linkedin.zip);
96
97
98      /* Is the path specified valid? */
99      %let fileref=unzip;
100     %let rc=%sysfunc(filename(fileref,%superq(unzip)));
101     %let path_found=%sysfunc(fileref(unzip));
102     %if &path_found ne 0 %then %do;
103         %put %sysfunc(sysmsg());
104         %put ERROR: *****;
105         %put ERROR- Path specified for data files (%superq(unzip)) is not valid.;
106         %put ERROR- Remember: PATH values in UNIX and LINUX are case sensitive. ;
107         %put ERROR- *****;
108         %let rc=%sysfunc(filename(fileref));
109         %return;
110     %end;
111
112     /* Get just the filename of the zipfile, not the .ZIP extension */
113     %if %qscan(%qupcase(%superq(zipfilename)),2,.) = %str(ZIP) %then %do;
114         %let zipfilename = %qscan(%superq(zipfilename),1,.) ;
115     %end;
116
117     /* Test for the presence of the main ZIP file in the path */
118     %let fileref=bigzip;
119     %let rc=%sysfunc(filename(fileref,%superq(unzip)/%superq(zipfilename).zip,zip));
120     %let big_zip_found=%sysfunc(fileref(bigzip));
121     %if &big_zip_found ne 0 %then %do;
122         %put NOTE: %superq(zipfilename).zip not found in %superq(unzip).;
123         %put NOTE- Attempting to download the ZIP file from the internet.;
124         filename BigZip "%superq(unzip)/%superq(zipfilename).zip";
125         proc http
126             url="%superq(url)"
127             out=BigZip method="get";
128         ;
129
130     run;
131
132     %let big_zip_found=%sysfunc(fileref(bigzip));
133     %if &big_zip_found ne 0 %then %do;
134         %put ERROR: *****;
135         %put ERROR- Attempt to download %superq(zipfilename).zip unsuccessful.;
136         %put ERROR- *****;
137         filename BigZip;
138         %return;
139     %end;
140 %end;
141
142 options dlcreatedir;
143 libname xx "%superq(path)";
144 libname xx clear;
145
146 /* Read the "members" (files) from the ZIP file */
147 /* Create the data folder structure and get a list of files in macro variables */
148 filename BigZip zip "%superq(unzip)/%superq(zipfilename).zip";
149 data _null_;
150     length memname pathname $500;
151     fid=dopen("bigzip");
152     if fid=0 then stop;
153     memcount=dnum(fid);

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154     do i=1 to memcount;
155         memname=dread(fid,i);
156         /* Create and empty folder for each folder in the ZIP file */
157         /* check for trailing / in folder name */
158         isFolder = (first(reverse(trim(memname)))='/');
159         /* if isfolder then put memname= isfolder=;*/
160         if isfolder then do;
161             pathname=cats("&path/",substr(memname,1,length(memname)-1));
162             put "NOTE: Creating path " pathname;
163             rc1=libname('xx',pathname);
164             rc2=libname('xx');
165         end;
166         else do;
167             filecount+1;
168             call symputx(cats('out',filecount),memname,'L');
169         end;
170     end;
171     rc=dclose(fid);
172     call symputx('filecount',filecount,'L');
173 run;
174
175 %do i=1 %to &filecount;
176     filename out "%superq(unzip)/%superq(out&i)";
177     data _null_;
178         infile bigzip(%superq(out&i))
179         lrecl=256 recfm=F length=length eof=eof unbuf;
180         file out lrecl=256 recfm=N;
181         input;
182         put _infile_ $varying256. length;
183         return;
184     eof:
185         stop;
186     run;
187 %end;
188
189 filename bigzip;
190 filename out;
191 filename unzip;
192
193 %let setup=%superq(unzip)/setup.sas;
194 %let cre8data_ready=%sysfunc(fileexist(%superq(setup)));
195
196 %if not &cre8data_ready %then %do;
197     %put;
198     %put ERROR: *****;
199     %put ERROR- After unzipping %superq(zipfilename).zip, setup.sas program not found ;
200     %put ERROR- in folder %superq(unzip).;
201     %put ERROR- Download and unzip %superq(zipfilename)_data.zip manually, then;
202     %put ERROR- run cre8data.sas again.;
203     %put ERROR- *****;
204     %put;
205 %end;
206
207 %let path=%superq(unzip)/data;
208
209 %include "%superq(setup)";
210
211 %mend unpack;
212
213 %unpack(%superq(path),epg194.zip,epg194)
SYMBOLGEN: Macro variable PATH_FOUND resolves to 0
SYMBOLGEN: Macro variable BIG_ZIP_FOUND resolves to 10005
NOTE: epg194.zip not found in /home/rickysaldanha0/EPG194.
      Attempting to download the ZIP file from the internet.
MPRINT(UNPACK): filename BigZip "/home/rickysaldanha0/EPG194/epg194.zip";
MPRINT(UNPACK): proc http url="http://dl.liveweb.sas.com/eldata/pg194_oda_linkedln.zip" out=BigZip method="get";
MPRINT(UNPACK): ;
MPRINT(UNPACK): run;

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NOTE: 404 Not Found

NOTE: PROCEDURE HTTP used (Total process time):

```

real time      0.16 seconds
user cpu time  0.00 seconds
system cpu time 0.00 seconds
memory        239.28k
OS Memory     19872.00k
Timestamp     01/03/2023 09:10:03 AM
Step Count    31  Switch Count  3
Page Faults   0
Page Reclaims 19
Page Swaps    0
Voluntary Context Switches 21
Involuntary Context Switches 0
Block Input Operations 0
Block Output Operations 8

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SYMBOLGEN: Macro variable BIG_ZIP_FOUND resolves to 0

MPRINT(UNPACK): options dlcreatedir;

MPRINT(UNPACK): libname xx "/home/rickysaldanha0/EPG194";

NOTE: Libref XX was successfully assigned as follows:

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Engine:      V9
Physical Name: /home/rickysaldanha0/EPG194

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MPRINT(UNPACK): libname xx clear;
NOTE: Libref XX has been deassigned.
MPRINT(UNPACK): filename BigZip zip "/home/rickysaldanha0/EPG194/epg194.zip";
MPRINT(UNPACK): data _null_;
MPRINT(UNPACK): length memname pathname $500;
MPRINT(UNPACK): fid=dopen("bigzip");
MPRINT(UNPACK): if fid=0 then stop;
MPRINT(UNPACK): memcount=dnum(fid);
MPRINT(UNPACK): do i=1 to memcount;
MPRINT(UNPACK): memname=dread(fid,i);
MPRINT(UNPACK): isFolder = (first(reverse(trim(memname)))='/');
MPRINT(UNPACK): if isFolder then do;
SYMBOLGEN: Macro variable PATH resolves to /home/rickysaldanha0/EPG194
SYMBOLGEN: Some characters in the above value which were subject to macro quoting have been unquoted for printing.
MPRINT(UNPACK): pathname=cats("/home/rickysaldanha0/EPG194/",substr(memname,1,length(memname)-1));
MPRINT(UNPACK): put "NOTE: Creating path " pathname;
MPRINT(UNPACK): rc1=libname('xx',pathname);
MPRINT(UNPACK): rc2=libname('xx');
MPRINT(UNPACK): end;
MPRINT(UNPACK): else do;
MPRINT(UNPACK): filecount+1;
MPRINT(UNPACK): call symputx(cats('out',filecount),memname,'L');
MPRINT(UNPACK): end;
MPRINT(UNPACK): end;
MPRINT(UNPACK): rc=dclose(fid);
MPRINT(UNPACK): call symputx('filecount',filecount,'L');
MPRINT(UNPACK): run;

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NOTE: DATA statement used (Total process time):

real time	0.00 seconds		
user cpu time	0.00 seconds		
system cpu time	0.00 seconds		
memory	557.46k		
OS Memory	20128.00k		
Timestamp	01/03/2023 09:10:03 AM		
Step Count	32	Switch Count	0
Page Faults	0		
Page Reclaims	57		
Page Swaps	0		
Voluntary Context Switches	3		
Involuntary Context Switches	0		
Block Input Operations	0		
Block Output Operations	0		

WARNING: Apparent symbolic reference FILECOUNT not resolved.

ERROR: A character operand was found in the %EVAL function or %IF condition where a numeric operand is required. The condition was: &filecount

ERROR: The %TO value of the %DO I loop is invalid.

ERROR: The macro UNPACK will stop executing.

SYMBOLGEN: Macro variable SYSUSERID resolves to rickysaldanha0

```

214
215 /* added to set &path for elearning */
216 %let path=/home/&sysuserid/EPG194/data;
217
218 options mprint notes source;
219
220
221 OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
SYMBOLGEN: Macro variable GRAPHTERM resolves to GOPTIONS NOACCESSIBLE;
231

```