



Sample 33918: Read and convert multiple transport (XPORT) files to SAS data sets

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The sample code on the **Full Code** tab can be used to dynamically convert transport files of XPORT type into SAS data sets. The macro loops through the files in the directory and runs PROC COPY for each transport file it finds. By using this sample macro, the need to write individual LIBNAME statements for each .xpt file is eliminated.

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This macro can be used to dynamically convert transport files of XPORT type into SAS data sets.

To run the below code successfully, you must have or create a folder named temp that resides on the c:\ drive (else the error appears, ERROR: A character operand was found. The condition was: &memcnt).

Note: For another macro to list all files in a directory, see [Sample 24696](#).

```
/* The code below creates a transport file in the temp folder for use by the macro */
```

```
libname testlib xport 'c:\temp\trans.xpt';
proc copy in=sashelp out=testlib;
  select retail;
run;
```

```
/* Note: Macro starts here */
```

```
/* Macro using PROC COPY and the XPORT engine for reading transport files*/
%macro drive(dir,ext,out);
```

```
%let filrf=mydir;
```

```
/* Assigns the fileref of mydir to the directory and opens the directory */
%let rc=%sysfunc(filename(filrf,&dir));
%let did=%sysfunc(dopen(&filrf));
```

```
/* Returns the number of members in the directory */
%let memcnt=%sysfunc(dnum(&did));
```

```
/* Loops through entire directory */
%do i = 1 %to &memcnt;
```

```
/* Returns the extension from each file */
%let name=%qscan(%qsysfunc(dread(&did,&i)), -1,.);
```

```
/* Checks to see if file contains an extension */
%if %qupcase(%qsysfunc(dread(&did,&i))) ne %qupcase(&ext) %then %do;
```

```
/* Checks to see if the extension matches the parameter value */
/* If condition is true, submit PROC COPY statement */
%if (%superq(ext) ne and %qupcase(&name) = %qupcase(&ext)) or
    (%superq(ext) = and %superq(name) ne) %then %do;
```



```

%end;
%end;
%end;

/* Close the directory */
%let rc=%sysfunc(dclose(&did));
/* END MACRO */
%mend drive;

/* Macro call */

/*First parameter is the source folder, the second parameter is extension being */
/*searched for, and the third parameter is the target directory for the      */
/*converted files.                                                           */

%drive(c:\temp,xpt,c:\temp\)
```

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```

1401  %drive(c:\temp,xpt,c:\temp\)
```

NOTE: Libref OLD was successfully assigned as follows:

```

Engine:      XPORT
Physical Name: c:\temp\trans.xpt
```

NOTE: Libref NEW was successfully assigned as follows:

```

Engine:      V9
Physical Name: c:\temp
```

NOTE: Input library OLD is sequential.

NOTE: Copying OLD.RETAIL to NEW.RETAIL (memtype=DATA).

NOTE: BUFSIZE is not cloned when copying across different engines.

System Option for BUFSIZE was used.

NOTE: There were 58 observations read from the data set OLD.RETAIL.

NOTE: The data set NEW.RETAIL has 58 observations and 5 variables.

NOTE: PROCEDURE COPY used (Total process time):

```

real time      0.02 seconds
cpu time       0.01 seconds
```

You could have a fairly large number of transport files to convert into SAS data sets. By using this sample macro, writing individual LIBNAME statements for multiple transport files can be eliminated.

Type: Sample

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Operating System and Release Information

Product Family	Product	Host	SAS Release



		Microsoft Windows XP Professional		9.2 TS2M0
		Microsoft Windows Server 2003 Standard Edition		9.2 TS2M0
		Microsoft Windows Server 2003 Enterprise Edition		9.2 TS2M0
		Microsoft Windows Server 2003 Datacenter Edition		9.2 TS2M0
		Microsoft Windows NT Workstation		
		Microsoft Windows 2000 Professional		
		Microsoft Windows 2000 Server		
		Microsoft Windows 2000 Datacenter Server		
		Microsoft Windows 2000 Advanced Server		
		Microsoft Windows 95/98		
		Microsoft® Windows® for x64		9.2 TS2M0
		Microsoft Windows XP 64-bit Edition		9.2 TS2M0
		Microsoft Windows Server 2003 Enterprise 64-bit Edition		9.2 TS2M0
		Microsoft Windows Server 2003 Datacenter 64-bit Edition		9.2 TS2M0
		OS/2		
		Microsoft® Windows® for 64-Bit Itanium-based Systems		9.2 TS2M0
		Windows Vista		9.2 TS2M0