

Reference

<http://ss64.com/nt/robocopy.html>

Options Summary

Source options

`/E` copy subfolders including empty subfolders
`/COPYALL` copy ALL file info (DATSOU)

Copy options

`/L` list only - don't actually copy
`/R:n` number of retries, default is 1 million
`/W:n` wait time, default is 30 seconds

Destination options

`/MIR` mirror - tend to avoid using

Logging options

`/NP` no progress displayed, i.e. no %age copied
`/LOG:file` overwrite log file
`/LOG+:/file` append to log file
`/FP` include full path of files in output
`/NFL` no file list in log
`/NDL` no directory list is log
`/TEE` output to console and log file

Advanced options

`/XF file [file]` exclude files listed
`/XD dir [dir]` exclude directories listed
`/V` verbose output, shows skipped files
`/MT[:n]` Multithreaded, default is 8 - don't normally use

Requirements and Recommendations

The scripts, options, filenames are merely personal choices.

Source and **Destination** folders can be either local filesystem references (e.g.D:\path\to\directory) or UNC path (e.g. \\Server\share\path\to\directory).

Log file suffix either **Date stamp**, **Date and Time stamp** or **Job Id**.

The log file path (e.g. C:\support\logs) should exist. Robocopy makes a log file if it doesn't exist but does not create a log directory.

Should always use the log only (/L) option until ready to perform the copy at which point remove /L from the command options.

Base Command

```
robocopy <source> <destination> /COPYALL /L /E /R:1 /W:1 /FP /V /NP /TEE
/LOG:C:\support\logs\robocopy-<suffix>.log
```



Simple Batch Version

```
@echo off

SET SDIR=<type or paste Absolute directory path or Full UNC path>
SET DDIR=<type or paste Absolute directory path or Full UNC path>
:: File suffix either datestamp, datetimestamp or job id - uncomment as required
SET FILESUUFFIX=%date:~10,4%%date:~7,2%%date:~4,2%
::SET FILESUUFFIX=%date:~10,4%%date:~7,2%%date:~4,2%-time:~0,2%%time:~3,2%%time:~6,2%
::SET FILESUUFFIX=jobid
SET LOGFILE=C:\support\logs\robocopy-%FILESUUFFIX%.log
:: Common parameters: /L,/V,/B,/MIR, /MT:# - add/remove as required
:: Remove /L to perform copy
SET MAIN_OPTIONS=/COPYALL /L /E /R:1 /W:1 /FP /V /NP
SET FILE_OPTIONS=/XD "RECYCLER" "System Volume Information" /
:: Default is to append to log file "+"
:: /TEE is not require if running as scheduled task
SET LOG_OPTIONS=/TEE /LOG+:"%LOGFILE%"
robocopy.exe "%SDIR%" "%DDIR%" %MAIN_OPTIONS% %FILE_OPTIONS% %LOG_OPTIONS%
```

Expanded Batch Version

```
@echo off

:: After completing job, uncomment the following 2 lines so the script cannot be run accidentally
:: echo Script has been actioned, remove/comment 'exit command' if you really want to run
:: exit /b
:: Data migration - <JOBID>
:: Source
:: * S:\Source\path\to\directory
:: * \\SOURCESERVER\Users$\username
:: * \\SOURCESERVER\share\path\to\location
:: Destination
:: * D:\Destination\path\to\directory
:: * \\DESTINATIONSERVER\Users$\username
:: * \\DESTINATIONSERVER\share\path\to\location
SET JOB=JOBID
:: change from "listonly" to run robocopy command
SET TYPE=listonly
::SET TYPE=run
:: Either host could be %computername% for more flexibility
SET SHOST=SERVERNAME
SET DHOST=SERVERNAME
:: SET ISOFORMAT=time || SET ISOFORMAT=date
```



Expanded Batch Version (cont)

```

SET ISOFORMAT=date
if %ISOFORMAT%==date (
    SET FILESTAMP=%date:~10,4%%date:~7,2%%date:~4,2%
else (
    SET FILESTAMP=%date:~10,4%%date:~7,2%%date:~4,2%-time:~0,2%%time:~3,2%%time:~6,2%
)
:: If migrating user home folder set USER and then generate directories.
:: Otherwise can simply use static UNC or absolute paths
SET USER=FirstName.LastName
SET SDIR=\\%SHOST%\Users$\%USER%\<SRC FOLDER>
SET DDIR=\\%DHOST%\Users$\%USER%\<DST FOLDER>
:: Change drive letter as required
::SET SDIR=\\%SHOST%\d$\<SRC FOLDER>
::SET DDIR=\\%DHOST%\d$\<DST FOLDER>
:: Note: /L is used for testing, and log filename will be appended with "-test"
:: LOGDIR must exist, change as appropriate
SET LOGDIR=C:\support\logs
if %TYPE%==listonly (
    SET LOGFILE=%JOB%-FILESTAMP%-test.log
    SET LOGONLY=/L
) ELSE (
    SET LOGFILE=%JOB%-FILESTAMP%.log
    SET LOGONLY=
)
:: Robocopy options - for a single folder
:: Common parameters: /L,/V,/B,/MIR, /MT:# - add/remove as required
SET MAIN_OPTIONS=/COPYALL %LOGONLY% /E /R:1 /W:1 /FP /V /NP
SET FILE_OPTIONS=/XD "RECYCLER" "System Volume Information" /XF *.* thumbs.db desktop.ini
:: Default is to append to log file "+"
:: /TEE is not require if running as scheduled task
SET LOG_OPTIONS=/TEE /LOG+: "%LOGDIR%\%LOGFILE%"
robocopy.exe "%SDIR%" "%DDIR%" %MAIN_OPTIONS% %FILE_OPTIONS% %LOG_OPTIONS%

```

