

### 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
```



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### 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, dateti mestamp or job id - uncomment as required
SET FILESUFIX=X=%date%;4%%date%;7,2%%date%;4,2%-time%;0,2%%time%;3,2%%time%;6,2%
::SET FILESUFIX=jobid
SET LOGFILE=E:\s upp ort \log s \rob oco py- %FILESUFIX%.log
:: Common parameters: /L,/V, /B, /MIR, /MT:# - add/remove as required
:: Remove /L to perform copy
SET MAIN_OPTIONS=/C OPYALL /L /E /R:1 /W:1 /FP /V /NP
SET FILE_OPTIONS=/XD " REC YCL ER" " System Volume Inform ati on" /
:: 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
:: * \\SOURCESSERVER\Users $username
:: * \\SOURCESSERVER\share \path \to \location
:: Destination
:: * D:\Destination \path \to \directory
:: * \\DESTINATIONSERVER\Users $username
:: * \\DESTINATIONSERVER\share \path \to \location
SET JOB=JOBID
:: change from "listen only" to run robocopy command
SET TYPE=listenonly
::SET TYPE=run
:: Either host could be %computername% for more flexibility
SET SHOST=SERVERNAME
SET DHOST=SERVERNAME
:: SET ISOFORMAT=time || SET ISOFORMAT=date
```



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### 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%
```



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