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## Introduction

"Why use batch files?", you might ask as you read this. Well, there is one very easy and simple reason- time. Batch files will perform tasks that you don't want to do all the time. For example, one file that we overlook a lot is the AUTOEXEC.BAT. This file is the file that your computer accesses every time you turn it on. It is located in your root directory, usually C:\. Now, lets say you have some kind of menu in your program. It gives you a choice of Microsoft Windows, Microsoft Word, and Microsoft Excel. Now lets call this program MENU MAKER. This is probably how your AUTOEXEC.BAT would look if you had MENU MAKER in it after the basic autoexec commands...

```
CD\MENUMAK
MENUMAK C:\MENUMAK
CD\
```

All this basically means is that you have a lot of commands to type but your AUTOEXEC.BAT does them automatically.

Batch files also give you some experience in programming. I started with them when I was younger in programming and they really help you prepare for Basic or C programming. The If and Goto command are very similar in Basic and in Batch file processing. Also, batch processing gives you experience with MS-DOS. It makes it nice that everytime you learn a new MS-DOS Command, you can apply it to your batch file. Well, your on your way to making successful batch files with BatchEdit, good luck.

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## Batch File Commands

There are some basic batch file concepts and commands you must know to get started in your batch file processing. Our first will be the **echo** command and the manipulation of it. Echo has the following syntax: **Echo On** or **Echo Off**. Echo On specifies that a DOS Prompt will show as well as the command. Echo Off, which is preferred, and gives a more professional look to batch files, specifies no prompt or batch command will show. It provides a smoother, flowing look.

A third use of the echo command is the **echo message**. This displays a message you write. Perhaps you wanted a message "Hello World!". The first lines of your batch file should be:

```
ECHO OFF  
ECHO HELLO WORLD!
```

For any reason, if you or the batch file user should want to interrupt their batch file, the **Ctrl-C** keys should be used. These interrupt your batch files if you have a loop or other bug.

Another command you should keep in mind if you want to use, for it has no real batch file value except your own, is the **REM** command. **REM message** is used when you want to display a message. This is particularly useful in BatchEdit because when you make your programs, it is likely that after a week of not seeing them, you'll forget what they were all about. It is also good if you have a batch file that you upload as an example to CompuServe, one where people will be really looking at it and studying it.

The next command we want to learn is the **Pause** command. Pause allows you to wait for the user to press a key. Use the pause command as a command by itself. It is used if you have made a batch file to make diskcopy or to format a disk. You don't want your file to format a blank disk so you use the pause command. Pause displays the message "Press any key to continue". If you don't want any message use the **PAUSE > NUL** command. This will display nothing, but it will pause the batch file until the user presses a key. Use the echo command with the pause command to display a message for the pause command. For example...

```
ECHO OFF  
ECHO PRESS A KEY IF YOU WANNA KEEP GOING, PRESS CTRL-C TO STOP ME  
PAUSE > NUL
```

That's an overview of basic batch file concepts. Memorize and apply these. If your a Visual Basic programmer it's like the Form1.Caption property or for QBasic programmers its CLS, which still applies in MS-DOS.

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**Note** To learn more commands such as DISKCOPY, FORMAT, or DIR, consult your MS-DOS Reference.

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## Using Batch File Parameters in Your Programs

Batch File parameters are a great way to use and manipulate user input. A batch file parameter is something the user types when he or she types in the batch file parameters. For example, the batch file name might be MANAGE.BAT. When the user types MANAGE F B, the "F" and the "B" are the command-line parameters. They are assigned to %1 and %2. There is nine paramaters. The 0% parameter is the batch file name. The % variables are great for displaying and using. To display the %1 use this program:

```
ECHO OFF
CLS
ECHO %1
```

If you want to display "%1" use the Echo command with %%1 instead of %1. %1 displays the actual parameter itself. Actual commands like DISKCOPY use command-line parameters. DISKCOPY A: B: means diskcopy from the "A" drive to the "B" drive. Let's use command-line parameters to make an advanced CHKDSK program called CHKDSK1:

```
ECHO OFF
CLS
%1
ECHO RUNNING CHKDSK1 ON YOUR %1 DRIVE
CHKDSK %1
VOL
DIR /O /P
PAUSE > NUL
ECHO PRESS A KEY TO GO BACK TO BATCHEdit
```

If your new to batch files, all this about parameters means nothing. However, once you learn to manipulate them, as in the above example, which does this to a small degree. In the next section you'll learn probably the "meat" of this help file.

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## The More "Advanced" Batch File Concepts

After you get finished reading this section, you'll learn that the IF operator is very important operator. Lets look at the first use of the IF, the **IF EXIST**. Use the IF EXIST to test if a file name exists. Let's look at a quick example of the **IF EXIST** operator:

```
ECHO OFF
CLS
IF EXIST AUTOEXEC.BAT ECHO THE AUTOEXEC.BAT FILE IS IN THIS DIRECTORY
TYPE AUTOEXEC.BAT | MORE
```

You might expect, the **IF NOT EXIST** operator is the exact opposite of the IF EXIST. It is used with the same syntax **IF NOT EXIST filename.ext DOSCommand**.

Another use of the IF property is the **IF StringOne==StringTwo DOSCommand**. When we talk about strings, for those who don't program in Basic or C, which prolifically use strings. First, strings are enclosed in double quotation marks ("*String*"). They are enclosed in quotation marks because words not enclosed in quotation marks are variables. Batch files don't use variable much so don't be concerned with them yet. Let's try and IF command with strings:

```
ECHO OFF
CLS
IF "%1"=="AUTOEXEC.BAT" ECHO %%1 EQUALS THE AUTOEXEC.BAT
```

Now, once again, take an opposite of IF and make it IF NOT. **IF NOT StringOne==StringTwo**. Here's an example using the example above:

```
ECHO OFF
CLS
IF NOT %1==AUTOEXEC.BAT ECHO %%1 IS NOT THE AUTOEXEC.BAT
```

Now, let's get back to what maybe the most used function the **IF ERRORLEVEL**. This command is tough to explain. Every time a command is performed, an errorlevel is returned. An errorlevel is a number returned when something happens. Let's say you wanted to make a DISKCOPY A: B:. The value returned for a successful disk copy is 0, a copy unsuccessful due to nonfatal disk error; 1, Copy incomplete because user pressed Ctrl-C; 2, Copy unsuccessful due to fatal disk error; 3, Insufficient memory or invalid drive; 4. Let's use IF ERRORLEVEL in an example:

```
ECHO OFF
CLS
DISKCOPY A: B:
IF ERRORLEVEL 4 ECHO INSUFFICIENT MEMORY OR THERE IS AN INVALID DRIVE
IF ERRORLEVEL 3 ECHO THERE'S A FATAL DISK ERROR THAT CAUSED AN UNSUCCESSFUL COPY
IF ERRORLEVEL 2 ECHO IF YOU WANT TO DO A DISKCOPY DON'T PRESS CONTROL-C
IF ERRORLEVEL 1 ECHO A NONFATAL DISK ERROR CAUSED AN UNSUCCESSFUL DISKCOPY
IF ERRORLEVEL 0 ECHO DISKCOPY WAS SUCCESSFUL!
```

Here are some errorlevels that are useful in all causes. This file supposes you have MS-DOS 6. Here are the errorlevels:

### **Command Errorlevel Meaning**

CHKDSK	0	No errors
	255	Errors detected
CHOICE	0	User pressed Ctrl-C
	255	Errors detected
DEFRAG	0	Successful defragmentation
	1	Internal error in processing

	2	No free clusters; DEFRAG needs at least one
	3	User pressed Ctrl-C; DEFRAG incomplete
	4	General error in processing
	5	Disk read error
	6	Disk write error
	7	Cluster allocation error; use CHKDSK /F
	8	Memory allocation error
	9	Insufficient memory
DELTREE	0	Successful deletion of directory and contents
DISKCOMP	0	Disks compare exactly
	1	Disks are not the same
	2	User press Ctrl-C; DISKCOMP incomplete
	3	Unrecoverable read or write error
	4	Insufficient memory, invalid drive, or syntax error
DISKCOPY	0	Successful copy
	1	Nonfatal read or write error
	2	User pressed Ctrl-C; DISKCOPY incomplete
	3	Unable to either read source or format target disk
	4	Insufficient memory, invalid drive, or syntax error
FIND	0	Successful search (match found)
	1	Search Completed (no matches found)
	2	Error during search
FORMAT	0	Successful format
	3	User pressed Ctrl-C; format incomplete
	4	Fatal error; format incomplete
	5	User pressed N at the continue prompt
MOVE	0	Files moved(or directory renamed) successfully
	1	Error in moving files or renaming directory
MSAV	86	Virus detected
REPLACE	0	Successful replacement
	2	Source file not found
	3	Source or target path not found
	5	Read-Only target file
	8	Insufficient memory
	11	Invalid command line
RESTORE	0	Successful restore
	1	No files found
	3	User pressed Ctrl-C; restore incomplete
	4	Fatal error; restore incomplete
SETVER	0	Successful update of version table
	1	Invalid command-line switch
	2	Invalid filename
	3	Insufficient memory
	4	Invalid version number
	5	Entry specified not found in table

- 6 MS-DOS System files not found
- 7 Invalid drive
- 8 Too many command line parameters
- 9 Missing command line parameter
- 10 Error reading MS-DOS System files
- 11 Version table corrupted in MS-DOS System files
- 12 MS-DOS system files don't support version table
- 13 Insufficient space in version table
- 14 Error writing to MS-DOS System files

- XCOPY
- 0 Successful copy
  - 1 No files found to copy
  - 2 User pressed Ctrl-C; copy incomplete
  - 4 Initialization error (not enough memory, invalid drive, file or path not found, or syntax error)
  - 5 Disk write error

**Calling** and invoking another batch file is easy with the call command. Use the syntax **Call BatchFile [Parameters]**. This is very useful to make fast, timesaving batch files that are interdependent.

Our next command will be **GOTO**. Goto is used usually with IF. Use GOTO in the following *If [Condition] GOTO Label*. The IF CONDITION is like IF ERRORLEVEL , IF EXIST, etc. The label in a section in the batch file that is preceded with a colon ( : ). If you're confused, look at the following example:

```
ECHO OFF
CLS
DISKCOPY A: B:
IF ERRORLEVEL 0 GOTO GOOD
GOTO END
:GOOD
ECHO SUCCESSFUL DISKCOPY!
:END
```

The final command we are going to learn is the **CHOICE**. The choice command uses errorlevels and is used with the following syntax **CHOICE /C:Keys [Message]**. Let's look at an example. Remember, each key is assigned an errorlevel. The first key is one, etc.:

```
ECHO OFF
:LOOP
CLS
ECHO          MAIN MENU
ECHO  A       MSAV
ECHO  B       DEFRAG
ECHO  C       MEM
ECHO  D       QUIT TO DOS
CHOICE /C:ABCD ENTER CHOICE:
IF ERRORLEVEL 4 GOTO QUIT
IF ERRORLEVEL 3 GOTO MEM
IF ERRORLEVEL 2 GOTO DEFRAG
IF ERRORLEVEL 1 GOTO MSAV
GOTO DONE
MEM:
MEMMAKER
GOTO DONE
:DEFRAG
DEFRAG
:MSAV
```

MSAVE  
:QUIT  
:DONE



## The File Menu

**New:**

Closes all your open files and lets you make a new file.

**Open:**

Gives you a dialog box that lets you open a file

**Save As:**

Gives you the opportunity to save your file as something.

**Exit:**

Exits the program

## Adding Sparkle to Your Batch Files

The custom menu gives you the ability to change the color and font of your program. Just follow the directions and go through the motions and viola!, you have your sparkled batch file.

## Running Your Batch Files

In the run menu, click on Go! If your batch file is saved, you'll go right to DOS and run it. However, if it is not, you'll get the message: "You must save your file before executing it!". The second menu item you will see is "Text Editor". This takes you to MS-DOS Text Editor where you can open batch files that you can't in BatchEdit.

## The Edit Commands:

Edit Cut:

Cut out and copy the selected text to clipboard

Edit Copy:

Keeps the selected text where it is but copy to the clipboard

Edit Delete:

Deletes the selected text

Edit Paste:

Pastes text to the current cursor position

## The "Special" Menu

The "Special" menu may be something you use a lot. First off in the special menu is the password feature. This adds a command line password to your program so when another user runs it, they have to type the batch file name and then the password. BatchEdit does all the work for you. All you have to do is type up the password and click on OK.

Also in the "special" menu is Notepad. Since BatchEdit does not support some functions, like ANSI, then you use MS-DOS Editor. Notepad allows you to view the some files that BatchEdit cannot. All you have to do is type in the full path name of the file you want to work with and click on OK and there you are.

Thank you for reading this and please register!

