

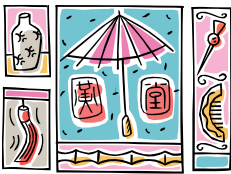


# F1 Solutions August 2005



## ::REM

Hello All,



I'm definitely multitasking now, with some pretty frequent page swaps to disk. I've started writing the advanced scripting book for Microsoft Press. I have a Microsoft webcast August 9th on scripting Exchange 2003 ( [http://msevents.microsoft.com/cui/WebCastEventDetails.aspx?](http://msevents.microsoft.com/cui/WebCastEventDetails.aspx?EventID=1032276550&EventCategory=4&culture=en-US&CountryCode=US)

EventID=1032276550&EventCategory=4&culture=en-US&CountryCode=US), I'm working on my TechMentor presentations (<http://www.techmentorevents.com>) for the San Jose conference this October, plus those of you who know me personally know I am also finishing up building a new house. But isn't that summers are for?

I have a few goodies in this issue for you including a companion tutorial to go along with last month's on DIRUSE This month I delve into DISKUSE from the resource kit and demonstrate how you can use it to get a handle on how much disk space your users are gobbling up.

On a related note, this month's quick script is an old-fashioned batch file (maybe I should say *classic*) that you can use to check the size of a file and take some action depending on the size.

Since I've been working so hard, and you probably have to, I think we deserve a little break so I've stirred in a little humor as well. Hope you enjoy it.

As always, I appreciate your continued support and welcome all comments, suggestions and feedback at [jhicks@jdhitsolutions.com](mailto:jhicks@jdhitsolutions.com).

~Jeff

## JDH IT Solutions

Since I haven't purchased anything new lately to review, I thought I'd quickly recap the solutions I've developed in case you haven't been through the rest of the site lately. Most of these are offered for a modest price, and some have a lite version which you are free to download.

### Scripting Assistant

The Scripting Assistant is a special HTA, designed for anyone serious about Windows script development. The console will discover all the scripting tools you are likely to use on your computer and provide a single management interface. In addition, the console contains web links to scripting related sites and newsgroups. Never got around to installing the ADSI help files? The entry in the web links section will take you there. Finally, the Scripting Assistant also includes two utilities to help you manage your scripts. You can export a script to a line numbered version or export to a color-coded html file. To learn more and see some screenshots or a video demo,

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### Special points of interest:

- JDH IT Solutions
- MSFN.ORG
- DISKUSE
- Check File Size

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## JDH IT Solutions - cont'd.

visit <http://scriptingassistant.jdhitsolutions.com/>

### Disk Reporter

This HTA based utility will analyze all logical drives from a list of servers (or workstations) and display a report showing drive size, a colorized graphical depiction of drive utilization and a percentage of disk space free.

Now you can see at a glance the "big picture" of server utilization as well as manage those servers directly from a resizable console. New in version 2.0 is the option to scan a single com-

puter. We've also added an Export feature. Now you can export the report table to a text, csv, html, Word or Excel file. Screen shots, export samples and a short video of version 1 are available at [http://www.jdhitsolutions.com/diskreporter/index.html#Disk\\_Reporter](http://www.jdhitsolutions.com/diskreporter/index.html#Disk_Reporter). A free "lite" version is available with a reduced feature set.

### Exchange Monitor Plus

This HTA is designed to help monitor and manage critical Exchange services on Exchange 2003 servers. Multi-

ple servers can be displayed automatically. You can see the status of services and modify them from the HTA. The HTA defaults to refreshing the display every 30 seconds, but you can modify this rate. A free basic version that can monitor a single Exchange 2000/2003 server is available at <http://www.jdhitsolutions.com/exchangemon/index.html>. For the full version visit <http://www.jdhitsolutions.com/exchangemonplus/index.htm>.

Thanks for your support.

“Kind words can warm for three winters, while harsh words can chill even in the heat of summer.”

— Chinese proverb

## Web Crawling—MSFN.ORG

I'm always on the lookout for new sources of information on Microsoft technologies. I recently came across the Microsoft Software Forum Network. This site is not affiliated with Microsoft but has a wealth of information on Microsoft products. On the home page are lists links to key Microsoft pages as well as download links. The site publishes software and hardware reviews, and some helpful guides such as how to create a bootable CD. This site also is pretty complete source of tech news on a wide range of topics. I added their RSS feed to my news reader.

What I like about sites like this is the active community forum. There are many, many forums both hardware and software related. If you are looking for information on Longhorn or 64-bit Windows, there are forums for that as well.

The site is free yet you only have to tolerate a minimum number of ads. I think the site is worth a quick visit and maybe you'll even find yourself sticking around.

Visit <http://www.msfn.org/> to check it out.

## You might be a hacker if...

- You've ever woken up at 3AM with an urgent need to use the bathroom, and on the way back thought, "I'll just check my email real quick".
- The case hasn't been on your computer since the day you bought it.
- `If(you_have_ever_written_email==this)`
- You think your phone is tapped.
- Your phone IS tapped.
- You tapped your own phone just to see if you could.
- Your last 5 meals consisted of pizza and Mountain Dew.

You can read more at <http://www.unixgeeks.org/humor/mightbehacker.txt>.

## Tech Tutor — DISKUSE

This month we'll take a quick peek at another Resource Kit utility that you can use to get a handle on disk utilization, DISKUSE.EXE. The simplest usage is `diskuse path`. The path can be a fixed drive letter and path or a UNC.. If you use the `/s` switch, then all subdirectories will also be examined. The utility will give you a report showing how much space is used by each user. Let's look at a very simple example.

I have a test directory structure called `E:\Files`. To see how much space is being used by each user I run the command `diskuse e:\files /s` which returns:

```
User: GODOT\atest
Space Used: 1522077
```

```
User: GODOT\jhicks
Space Used: 3151249
```

It does this by evaluating the owner SID of each file and keeping a running tally for each individual owner. If the SID can't be read, DISKUSE will report an error and keep going. You'll get this for files like `hiberfile.sys` and the page file. If you want more detail, use the `/V` switch to enable verbose reporting for a result like this:

```
User: GODOT\atest
Space Used: 1522077
```

```
6197 : 07/22/2005 : .\test\dirlist.txt
467304 : 07/22/2005 : .\test\dirlist2.txt
1048576 : 07/22/2005 : .\test\test2.jjj
```

```
User: GODOT\jhicks
Space Used: 3151249
```

```
5521 : 07/22/2005 : .\dir.txt
1048576 : 07/22/2005 : .\test1.dat
1048576 : 07/22/2005 : .\test12.dat
1048576 : 07/22/2005 : .\test13.dat
```

If you want a report for an individual user you can use the `/U` switch, but you'll need to know the user's `samAccountname`. If I run `diskuse e:\files /s /u:atest /v`, I will get the same output as above, except only for user `atest`. You can use standard console redirection to save the output to a text file, but even better is to use the `/F:filename` which will generate a nicer looking report.

Finally, the utility has a few switches that will help you narrow your focus. If I run `diskuse e:\files /v /s /n:2` it will display the 2 largest files per user. You need to use `/V` or you won't get any results.

```
User: GODOT\atest
Space Used: 1522077
```

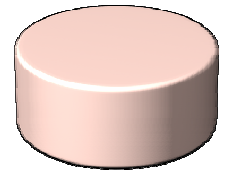
```
1048576 : 07/22/2005 : .\test\test2.jjj
467304 : 07/22/2005 : .\test\dirlist2.txt
```

```
User: GODOT\jhicks
Space Used: 3151561
```

```
1048576 : 07/22/2005 : .\test12.dat
1048576 : 07/22/2005 : .\test1.dat
```

Alternatively, you can display only files that are X bytes or larger by using the `/x:number` switch. Thus if I only wanted to see files larger than 1MB I would run `diskuse e:\files /v /s /x:1024000`. I won't display the results here, but I think you get the idea.

There are few other options with this utility, but I'll leave them for you to explore and try out.



“If you can't stand the heat, get out of the kitchen.”

— Harry S Truman

**JDH Information Technology Solutions**

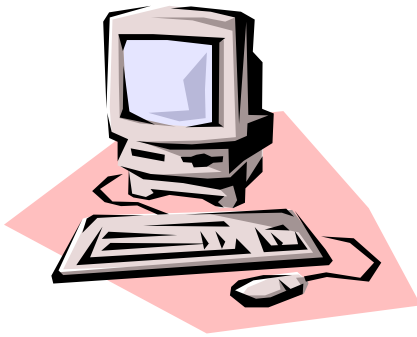
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**10 Minute Scripts**

If you need to check the size of a specific file and take some action based on the result, you could write a VBScript using the FileSystemObject. But if you aren't up to speed with VBScript or prefer something a little more direct, you can do it with a batch file. This batch file will check the size of a specified file against a specified threshold. As written it simply reports back if the file is larger than the specified size in bytes. You could run some other command. Or if you want you could substitute the following in place of GEQ:

- LEQ for less than or equal to
- EQU for equal to
- LSS for less than
- GTR for greater than

```
@echo off
::CHKSIZE.BAT
if %1==$ GOTO :Error
if %2==$ GOTO :Error

SET TARGET=%1
SET SIZE=%2
::the next command should be on one line
for /f "tokens=2 delims=" %i in ('dir /-c %TARGET% ^|find /i
"bytes" ^|find /v /i "free"') do @set Z=%i

for /f "tokens=1 delims=b" %i in ('echo %z%') do @set Z=%i

if %Z% GEQ %SIZE% ECHO %TARGET% is larger than %SIZE% bytes

SET TARGET=
SET SIZE=
SET Z=
GOTO :EOF

:ERROR
Echo Missing Parameter!
echo USAGE: %0 filename size_threshold_bytes
echo Example %0 c:\files\log.txt 1024
:EOF
```