

Finding NaN

Presented to

19th Annual International EMME/2 Users' Conference

October 19-21, 2005

Seattle WA

by

Larry Blain

Puget Sound Regional Council

PSRC Travel Demand Model

- Run Empty Assignments
 - Bank 1 – AM
 - Bank 2 – MidDay
 - Bank 3 – PM, EVening, NIght
 - TOD – Time of Day
- Run 1st Iteration
 - Bank 1 – Distribution and Mode Choice (Work,Col)
 - Bank 2 – Distribution, MC, and Assignment
 - Bank 1 – Assignment
 - Bank 3 – Assignment
 - TOD – Time of Day
- ETC.

The Problem

If a “NaN” occurs in a module,
the batch file continues.

Only when assignments take
excessively long are the reports
manually searched for “NaN”.

The Solution

Write a subroutine in the DOS batch file which searches reports for any occurrence of “NaN”, and stops if any are found.

The Problem

The DOS command “if” has only three forms:

- if exist *filename* then . . .
- if %*var1*=%*var2* then . . .
- if errorlevel (\geq) N then . . .

The Problem

(continued)

The DOS command “find” outputs only:

- Text listing the found occurrences.
- Text giving the count of occurrences.
- Just the count, if input is piped or redirected from a file.

Example

File1.rpt

This line of text contains a NaN.

And this line has NaN also.

But this does not.

File2.rpt

This line of text contains none.

And this has none also.

```
T:> find "NaN" File1.rpt
```

```
----- FILE1.RPT
```

This text contains a NaN.

And this has NaN also.

```
T:> find "NaN" File2.rpt
```

```
----- FILE2.RPT
```

```
T:> find /c "NaN" File1.rpt
```

```
----- FILE1.RPT: 2
```

```
T:> find /c "NaN" File2.rpt
```

```
----- FILE1.RPT: 0
```

```
T:> find /c "NaN" < File1.rpt
```

```
2
```

```
T:>find /c "NaN" File1.rpt | find /c ": 0" > {ntest}.dat
```

```
T:>type {ntest}.dat
```

```
0
```

```
T:>for %F in (*.rpt) do find /c "NaN" %F | find /c ": 0" >>{ntest}.dat
```

```
T:>type {ntest}.dat
```

```
0
```

```
1
```

nantest.bat %1

@echo off

echo.top >{ntest}.dat

for %%F in (*%1) do find /c "NaN" %%F | find /c ": 0" >>{ntest}.dat

find /c "0" {ntest}.dat >nul

if not errorlevel 1 exit /b 4

erase {ntest}.dat

exit /b 0

...

REM

REM call emme2 to obtain free-flow time skims

call emme2 000 -m run3mac\lateass0.mac

REM

REM Check for NaN in recent reports

@call ..\model\nantest .rpt

if errorlevel 4 (echo Found NaN) else (echo No NaN)

if errorlevel 4 exit /b

REM

ren *.rpt *.rp0

REM

...

For further information
about DOS batch files:

www.allenware.com/icsw/icswref.htm

¿Questions?