

What to Do when Things Go Wrong!

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CHECK YOUR MODEL

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Commands that Return Values

- analyze command

The analyze command returns 0 if successful.

It returns a negative number if not

```
set ok [analyze numIter <Δt>]
```

- getTime command

The getTime command returns pseudo time in Domain.

```
set currentTime [getTime]
```

- nodeDisp command

The nodeDisp command returns a nodal displacement.

```
set disp [nodeDisp node dof]
```

Example Usage – Displacement Control

```
set maxU 15.0; set dU 0.1
constraints transformation
numberer RCM
system BandGeneral
test NormDispIncr 1.0e-6 6 2
algorithm Newton
integrator DispControl 3 1 $dU
analysis Static
set ok 0
set currentDisp 0.0
while {$ok == 0 && $currentDisp < $maxU} {
    set ok [analyze 1]
    if {$ok != 0} {
        test NormDispIncr 1.0e-6 1000 1
        algorithm ModifiedNewton -initial
        set ok [analyze 1]
        test NormDispIncr 1.0e-6 6 2
        algorithm Newton
    }
    set currentDisp [nodeDisp 3 1]
}
```

Example Usage – Transient Analysis

```
set tFinal 15.0;
constraints Transformation
numberer RCM
system BandGeneral
test NormDispIncr 1.0e-6 6 2
algorithm Newton
integrator Newmark 0.5 0.25
analysis Transient
set ok 0
set currentTime 0.0
while {$ok == 0 && $currentDisp < $maxU} {
    set ok [analyze 1]
    if {$ok != 0} {
        test NormDispIncr 1.0e-6 1000 1
        algorithm ModifiedNewton -initial
        set ok [analyze 1 0.01]
        test NormDispIncr 1.0e-6 6 2
        algorithm Newton
    }
    set currentTime [getTime]
}
}
```

Segmentation Faults, etc:

- Email: fmckenna@ce.berkeley.edu
- Bugzilla: <http://opensees.berkeley.edu/bugzilla/index.cgi>

NOTE: Zip up your files in **1** directory and send them to us