The **NONLINEAR ERROR TOLERANCE** command

**Synopsis**

The **NONLINEAR ERROR TOLERANCE** command specifies the tolerance that is to be used to ascertain when convergence has been realized in a given solution increment.

**Syntax**

The following syntax is associated with the **NONLINEAR ERROR TOLERANCE** command:

```
NONlinear ERRor TOLerance #.#
```

**Explanatory Notes**

- Convergence is measured by the relative change of the $L_2$ norm of the solution vector between successive iterations.
- For most problems, values of the error tolerance in the range 0.010 to 0.005 are adequate.
- The default value for the tolerance is 0.010.

**Example of Command Usage**

To specify an convergence error tolerance of 0.025, enter either of the following commands:

```
nonlinear error  tolerance  0.025
non  err  tol  0.025
```