

Beta updates are module updates or additional modules that will be included in the next FS2000 installation setup.

To update the currently installed FS2000 version simple copy the exe files in the zip file to the fs2000\system folder.

## FS2000 Beta Update – Release Notes

### (1) Additional Capability - Editing Load Case Combinations

Requires: FS2000 GUI (Version 8.2.144) – winfram.exe

Requires: Archive.exe (Version 8.1.20)

- Added the capability to copy the current combination.
- Added the capability to combine and edit all load case combinations in a single text file.

This is an extract from the future Help file's topic relating to capability.

The **Copy Current Comb** button is used to copy the current combination i.e the one listed at the top, to a contiguous range defined by a start and finish. This copies the combination files but does not register them. Note that non registered combinations can be opened by entering ID in the open dialogue box.

The **Combine All Comb** and **Extract All Comb** buttons are used to facilitate editing or creation of all combination using a single scratch file **<model>.AllComb**. It is recommended that before using these functions (Extract after editing), the model is first Archived.

The **Combine** button will create the scratch file that will contain all current model combinations. An option to open the file in FS-Edit is also given.

The **Extract** button will interpret the scratch file and load all the combinations into the FS2000 model registry overwriting any current combinations.

#### <model>.AllComb Format

Each combination has a header line **\$COMBINATION,C392**. This must start with the \$ character. A comma delimiter separates the combination I.D. e.g. **C392**.

The 2nd line is the number of load cases in the combination **7**. This must be present but its value is not used when the file is interpreted. i.e. if load cases are added or removed no need to update.

The 3rd line is the start of the load case and load factor definition: **1 1.05**. One or more spaces are used to delimit the line, do NOT use a comma.

Simply insert lines to add load cases to the combination.

The last line is the mandatory combination description: **ASD - Grav\_Deadweight\_RiserLoad\_Tsun\_090**

```

20      1
4       1
5       1
51      1
ASD - Grav_Deadweight_RiserLoad_Tsun_045
$COMBINATION,C392
7
1       1
2       1
3       1.05
20      1
4       1
5       1
52      1
ASD - Grav_Deadweight_RiserLoad_Tsun_090
$COMBINATION,C393
7
1       1
2       1

```

### (2) Error Correction Pre-Combed Solutions – Cases with Temperature and Pressure Strains

Requires: Loada.exe (Version 8.1.57)

Defined Ambient temp was not being initialised between cases. This effects bends in a linear solution and all elements in a non-linear solution. Older code Workaround - make the P & T case is last in the combination or use Dynamic Load Case Merging.

If the combination contained a Generated Load Case, then the Load Factors applied to P & T axial strains were incorrectly applied (recipient-current reversed). This effects bends in a linear solution and all elements in a non-linear solution. Older code Workaround – don't pre-combine, use a time history combination for non-linear solutions or post-combine for linear solutions.