



Altair

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**HyperWorks**

Altair HVVH Tutorials 2019


HVVH-9050: AutoCompare

[altairhyperworks.com](http://altairhyperworks.com)


## Step 1: Altair HyperMesh Operations - Use Case 1 (reference files off and reference compare only on).

1. From the **Auto Compare** tab, select the **HM operations** tab.
2. For Solver Type, select **HM**.
3. Activate the **Reference compare only** check box and deactivate the **Reference files** check box. The **Current Version** drop-down menu will be disabled.
4. Under **Reference Version**, select 2017.3.
5. Use the file browser icon or the add file icon, , to select **Reference scripts**, **Reference models**, and **Reference files**, located in:  
..\tutorials\hvvh\AutoCompare
6. For the **Output directory** field, use the open file icon to select an output directory.
7. Click **Apply**.  
Scripts will be executed on reference models in the reference version and a generated OUT file will be compared with the reference files.  
Reference file can be any solver deck or ASCII file.
8. Report status is displayed under **User report**.
9. Click **HTML Report** to open an HTML report, which contains details of the script executed Altair HyperMesh.

## Step 2: Use Case 2 (reference files off and reference compare only off).

1. From the **Auto Compare** tab, select the **HM operations** tab.
2. For Solver Type, select **HM**.
3. Deactivate the **Reference files** and **Reference compare only** check boxes.
4. Under **Current version**, select **2017.3**.
5. Under **Reference version**, select **2017.0**.
6. Use the file browser icon or the add file icon, , to select **Reference scripts** and **Reference models**, located in:  
..\tutorials\hvvh\AutoCompare
7. For the **Output directory** field, use the open file icon to select an output directory.
8. Click **Apply**.  
Scripts will be executed on reference models in the current version and reference version. An OUT file generated in both versions will be compared.
9. Report status will be shown under **User report**.
10. Click **HTML Report** to open an HTML report, which contains details of the script executed Altair HyperMesh.

### Step 3: Use Case 3 (reference files *on* and reference compare only *off*).

1. From the **Auto Compare** tab, select the **HM operations** tab.
2. For Solver Type, select **HM**.
3. Activate the **Reference files** and deactivate the **Reference compare only** check boxes.
4. Under **Current version**, select **2017.3**.
5. Under **Reference version**, select **2017.0**.
6. Use the file browser icon or the add file icon, , to select **Reference scripts**, **Reference models**, and **Reference files**, located in:

..\tutorials\hvvh\AutoCompare

7. For the **Output directory** field, use the open file icon to select an output directory.
8. Click **Apply**.

Use case 3 is a combination of use case 1 and use case 2. It contains two steps:

Step 1: Scripts are executed on reference models in the reference version and a generated OUT file is compared with the reference files.

Step 2: Scripts are executed on reference models in the current version and a generated OUT file is compared with the OUT file generated in Step 1.

Reference files can be any solver deck or ASCII file.

9. Report status is shown under **User report**.
10. Click **HTML Report** to open an HTML report, which contains details of the script executed Altair HyperMesh.