**CII-AutoPIPE Integration Testing:**

|  |  |
| --- | --- |
| **Test Description** | To Test if CII Neutral Files created in CAESAR II are imported and exported correctly (Same as of previous commercial version) into AutoPIPE. |
| **Performed By** | Ahsan Anwar |
| **Date** | 19-October-2016 |
| **OS** | Win8.1-64bit |
| **Models(.CII)** | QA237A, QA237B, QA237C, QA237D, QA237E, QA237F, QA237G, QA237H, QA237I, INLET-SEPARATOR-SKID-C2, crysim, walkthru, Integ\_auto1, B313\_APPENDIXS\_EXAMPLE1 |
| **AutoPIPE version** | 11.0.0.9 Alpha |
| **AutoPIPE Benchmark** | 10.1.0 Commercial |
| **CAESAR II Versions** | 4.0, 4.3, 4.5, 8.0 |
| **Test Result:** | Test Failed (TFS # 591738) |

**CAESAR import Procedure:**

1. Open AutoPIPE Benchmark version (10.1.0 commercial).
2. Copy following CII neutral files to your local machine from following location.

[\\Isbprdfs03\qa\TestingProjects\AlphaTesting\CAE\AutoPIPE\11.0.0\IntegrationTesting\CII\CAESAR Import\CII Neutral Files](file:///\\Isbprdfs03\qa\TestingProjects\AlphaTesting\CAE\AutoPIPE\11.0.0\IntegrationTesting\CII\CAESAR%20Import\CII%20Neutral%20Files)

1. Go to File>Import>CaesarII Neutral(\*.CII)
2. Import all copied CAESARII models one by one.
3. Generate input listing report for all models. (.rpt).
4. Copy all .rpt files to following location:

[\\Isbprdfs03\qa\TestingProjects\AlphaTesting\CAE\AutoPIPE\11.0.0\IntegrationTesting\CII\CAESAR Import\BenchMark input listings (10.1.0)](file:///\\Isbprdfs03\qa\TestingProjects\AlphaTesting\CAE\AutoPIPE\11.0.0\IntegrationTesting\CII\CAESAR%20Import\BenchMark%20input%20listings%20(10.1.0))

1. Now open AutoPIPE latest version (11.0.0.9 Alpha).
2. Again copy CII neutral files to your local machine from following location.

[\\Isbprdfs03\qa\TestingProjects\AlphaTesting\CAE\AutoPIPE\11.0.0\IntegrationTesting\CII\CII Neutral Files](file:///\\Isbprdfs03\qa\TestingProjects\AlphaTesting\CAE\AutoPIPE\11.0.0\IntegrationTesting\CII\CII%20Neutral%20Files)

1. Go to File>Import>CaesarII Neutral(\*.CII)
2. Import all copied CAESARII models one by one.
3. Generate input listing report for all models. (.rpt).
4. Copy all .rpt files to following location:

[\\Isbprdfs03\qa\TestingProjects\AlphaTesting\CAE\AutoPIPE\11.0.0\IntegrationTesting\CII\CAESAR Import\11.0.0.9 Input Listings](file:///\\Isbprdfs03\qa\TestingProjects\AlphaTesting\CAE\AutoPIPE\11.0.0\IntegrationTesting\CII\CAESAR%20Import\11.0.0.9%20Input%20Listings)

1. Compare input listings files for each model. (Each model one by one).
2. Each model’s input listing files should match with each other.

**CAESAR IMPORT Testing Findings/Notes:**

1. Model Name: QA237A.CII (Version 4.0 file)

Input listing file generated from benchmark version (10.1.0) and input listing file generated from AutoPIPE latest version (11.0.0.9) are same.

Test, Passed.

1. Model Name: QA237B.CII (Version 4.0 file)

Input listing file generated from benchmark version (10.1.0) and input listing file generated from AutoPIPE latest version (11.0.0.9) are not same.

Following are discrepancies:

|  |  |  |
| --- | --- | --- |
|  | Benchmark 10.1.0 | AutoPIPE 11.0.0.9 |
| 1 | ASME NC 2013 | ASME NC 2015 |
| 2 | Material Library: ASME 2013 | Material Library: b311-04 |
| 3 | Hoop Modulus: 29.40000 | Hoop Modulus: 29.50000 |
| 4 | Long Modulus: 29.40000 | Long Modulus: 29.50000 |
| 5 | Shear Modulus: 11.30769 | Shear Modulus: 11.34615 |
| 6 | E2=27.90000 | E2=27.70000 |

Test, Failed.

1. Model Name: QA237C.CII (Version 4.0 file)

Input listing file generated from benchmark version (10.1.0) and input listing file generated from AutoPIPE latest version (11.0.0.9) are same.

Test, Passed.

1. Model Name: QA237D.CII (Version 4.0 file)

Input listing file generated from benchmark version (10.1.0) and input listing file generated from AutoPIPE latest version (11.0.0.9) are same except catalog data is added for valves.

Test, Passed.

1. Model Name: QA237E.CII (Version 4.0 file)

Input listing file generated from benchmark version (10.1.0) and input listing file generated from AutoPIPE latest version (11.0.0.9) are same.

Test, Passed.

1. Model Name: QA237F.CII (Version 4.0 file)

Input listing file generated from benchmark version (10.1.0) and input listing file generated from AutoPIPE latest version (11.0.0.9) are not same.

Following are discrepancies:

|  |  |  |
| --- | --- | --- |
|  | Benchmark 10.1.0 | AutoPIPE 11.0.0.9 |
| 1 | ASME NC 2013 | ASME NC 2015 |
| 2 | Material Library: ASME 2013 | Material Library: b311-04 |
| 3 | Hoop Modulus: 29.40000 | Hoop Modulus: 29.50000 |
| 4 | Long Modulus: 29.40000 | Long Modulus: 29.50000 |
| 5 | Shear Modulus: 11.30769 | Shear Modulus: 11.34615 |
| 6 | Exp2=1.0444 | Exp2=1.4000 |
| 7 | Exp3=0.59111 | Exp3=0.60684 |
| 8 | E3=29.03511 | E3=29.07521 |

1. Model Name: QA237G.CII (Version 4.0 file)

Input listing file generated from benchmark version (10.1.0) and input listing file generated from AutoPIPE latest version (11.0.0.9) are same.

Test, Passed.

1. Model Name: QA237H.CII (Version 4.5 file)

Input listing file generated from benchmark version (10.1.0) and input listing file generated from AutoPIPE latest version (11.0.0.9) are same except catalog data is added for valves.

Test, Passed.

1. Model Name: QA237I.CII (Version 4.3 file)

Input listing file generated from benchmark version (10.1.0) and input listing file generated from AutoPIPE latest version (11.0.0.9) are same except catalog data is added for valves.

Test, Passed.

1. Model Name: INLET-SEPARATOR-SKID-C2 (Version 8.0 file)

Input listing file generated from benchmark version (10.1.0) and input listing file generated from AutoPIPE latest version (11.0.0.9) are same except catalog data is added for valves.

Test, Passed.

1. Model Name: crysim.CII (Version 8.0 file)

Input listing file generated from benchmark version (10.1.0) and input listing file generated from AutoPIPE latest version (11.0.0.9) are same except catalog data is added for valves.

Test, Passed.

**CAESAR Export Procedure:**

1. Open AutoPIPE Benchmark version (10.1.0 commercial).
2. Open Following example models
3. Walkthru.dat
4. Integ\_auto1.dat
5. B313\_APPENDIXS\_EXAMPLE1.dat
6. Go to File>Export>Cii neutral and save CII files for these models
7. Copy CII benchmark files into following location for each model:

[\\Isbprdfs03\qa\TestingProjects\AlphaTesting\CAE\AutoPIPE\11.0.0\IntegrationTesting\CII\CAESAR Export\10.1.0 Benchmark files](file:///\\Isbprdfs03\qa\TestingProjects\AlphaTesting\CAE\AutoPIPE\11.0.0\IntegrationTesting\CII\CAESAR%20Export\10.1.0%20Benchmark%20files)

1. Open AutoPIPE latest version. (11.0.0.9)
2. Again open same example models

a) Walkthru.dat

b) Integ\_auto1.dat

c) B313\_APPENDIXS\_EXAMPLE1.dat

1. Go to File>Export>Cii neutral and save CII files for each of these models
2. Copy CII neutral files in following folder.

[\\Isbprdfs03\qa\TestingProjects\AlphaTesting\CAE\AutoPIPE\11.0.0\IntegrationTesting\CII\CAESAR Export\11.0.0.9 CII files](file:///\\Isbprdfs03\qa\TestingProjects\AlphaTesting\CAE\AutoPIPE\11.0.0\IntegrationTesting\CII\CAESAR%20Export\11.0.0.9%20CII%20files)

1. Compare CII files from both folders for each model. (Each file one by one).
2. Each model’s CII file should match with each other

**CAESAR EXPORT Testing Findings/Notes:**

1. Model Name: Walkthru.dat

Benchmark CII exported file and latest AutoPIPE exported CII are same.

Test, Passed.

1. Model Name: Integ\_auto1.dat

Benchmark CII exported file and latest AutoPIPE exported CII are same.

Test, Passed.

1. B313\_APPENDIXS\_EXAMPLE1.dat

Benchmark CII exported file and latest AutoPIPE exported CII are same.

Test, Passed.