



Test Content Tool User Guide

Rev 1.0

IOTG PDE Team

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Introduction

Tool Motivation:

All PDE Test Content teams require to have an automated flow to perform usual content activities such as content checkouts, execution of TVPV steps and format conversions. This tool aims to integrate all potential content related utilities to define a standardized method to made more efficient, agile and smother the PDE execution; this tool allows to user execute an END to END content migration from previous stepping or projects.

Tool Description:

This tool is based on three different section or utilities:

- **Content Check-Out:** Allows to user get a copy of existing content to migration or reutilization purpose.
- **Content Conversion:** Automation on content format conversions (SPF, eSPF, ITPP)
- **Content Check-In:** Execution of TVPV Flow Steps (vault+iTrace+VCF) and PCAR3 to build production lists based on existing plists.

Current Tool Status:

Utility	Feature	Status
Content Check-out	Download SPF content from vault database using a plist reference	Validated
	Download SPF content from vault database using a list with TID numbers	Validated
	Download SPF content from vault database using a list with tuple numbers	Validated
	Overwrite SPF Content based on previous checkout	Validated
	Overwrite SPF Content based on existing folder	Validated
	SPF/Files renaming	Validated
Content Conversion	SPF to ITPP conversion	Validated
	SPF to ITPP conversion (using NetBatch)	Validated
	ESPF to SPF conversion	Validated
	ESPF to SPF conversion (using NetBatch)	Validated
	ITPP to SPF (hack to itpp)	Validated
	Extra collaterals option	Validated
Content Check-in	Vault deposit and check-in	Validated
	iTrace install/launch	Validated
	VCF	Validated
	Plist Generation based on existing plist	Validated
	Plist Generation based on .pcar file	Validated
	Plist Generation based on setup file	Validated
	Setup Generation from existing plist	Validated
	All TVPV flow Run	Validated

Initial Steps

Code Source

Tool is deployed in python language (3.7 version); it is under control version and it is accessible using GIT lab and GIT HUB:

From Browser:

<https://github.com/intel-sandbox/TestContentTool>

Requirement: Have enable your github user.

https://1source.intel.com/docs/getting_started/on_board

Environment Set-up

1. `wash -n gdlusers sklall soc socenv coe73 socrtl soc73 srvr10nm hdk10nm sbx phdk73rtl aepdew;`
2. source to the latest pacman/DRV release
`source /nfs/site/disks/sc_aepdeD12/htd/Xeon_EE/Train/root_release/drv_spr_u1_22ww29a/sourceme -p spr -s u1 -r rtl`

3. `setenv NBCLASS 'SLES11SP4&&96G'`

4. `setenv NBQSLOT <NB queue slot>`

`setenv NBQSLOT MVE/ATV/SIO`

NBQSLOT
/MVE/ATV/CLK
/MVE/ATV/MIO
/MVE/ATV/PTI
/MVE/ATV/SIO
/MVE/MIG/FUSE
/MVE/MIG/RTD
/MVE/MIG/TVFV/tvpv_user
/MVE/PQM/DTV/array
/MVE/PQM/DTV/functional
/MVE/PQM/DTV/scan

5. `setenv NB_WASH_ENABLED 1`
6. `setenv NB_WASH_GROUPS "gdlusers,user,sklall,soc,socenv,coe73,socrtl,soc73,sbx,gdlusers,phdk73rtl,hdk10nm,srvr10nm,aepdew"`

How to run the tool?

`/usr/intel/bin/python3.7.4 <path_to_script>/Test_Content_Tool.py .git`
`/usr/intel/bin/python3.7.4 /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/Test_Content_Tool.py`

Tool Utilities

Below sections have a summary for all tool capabilities. Goal is to provide to the user an idea about functionalities and how to use these: how to set existing graphical interface, which are the required inputs, what is the expected output on console and final results that users will have.

GUI will guide to users through the right flows, enabling and disabling different widgets according to their selections.

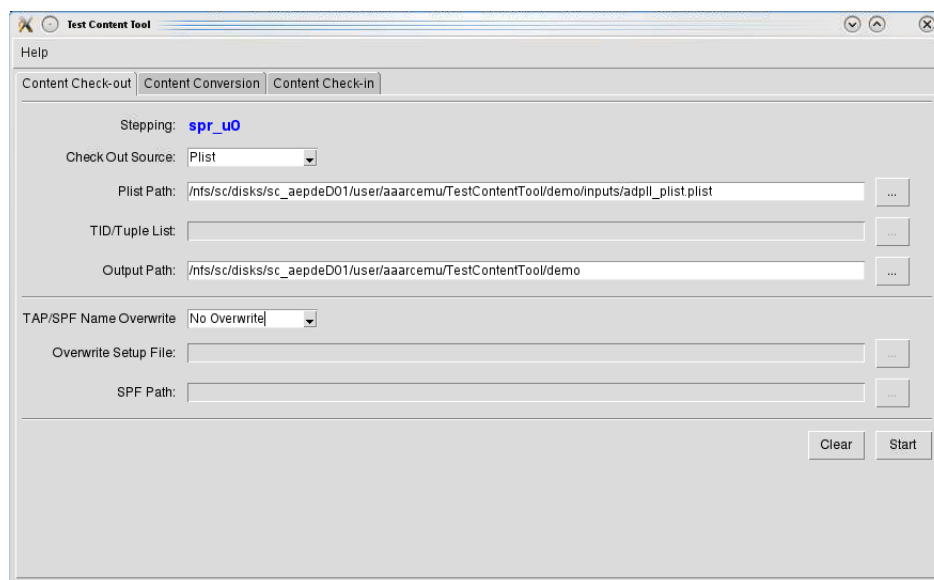
3.1 Content Check-out

User is able to get a copy for all content from previous project or stepping based on existing plists, list of TIDs or tuples. User specifies the kind of source and path to it; tool will place all content on SPF format on specific output folder. It is useful for reutilization or validation purpose.

Parallel to check out, additional feature is added when this content will be reused and minimal code changes are required; for example: topology changes between projects represented by new TAP EndPoints names. Based on this scenario, user can specify their required updates and tool will update all the content based on it. Tool modifies the SPF from previous check-out to the new project; these overwrites can be also apply if content is placed into a specific folder.

3.1.1 Clone SPF content from vault using a plist

GUI Set-up



Input -> Content on plist from previous project

```
scc921043> cat /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/adpll_plist.plist
Version 5.0;

GlobalPlist clk_adpll_mcdrrc6_r6_lockcapture [PreBurstPlist spr_reset__ph5_pll_oddball_plist__hvm400] [PostBurstPlist spr_post__ph5_end_gracefully_plist__hvm400] [Flatten] {
  Pat d2975533V5027791D_F0_SR052TSs_Gnm220000benC_XXX1XXV_a080818bXXX02_SR2PTET0SC09x15r_x00_adpll_mcdrrc6_r6_xX_configstatcap;
  Pat d3333998V5361979D_EA_SR053TSs_Gnm220000benC_XXX1XXV_a080818bXXX02_SR2PTET0SC09x15r_x00_adpll_mcdrrc6_r6_x16_lockcap;
} # End of clk_adpll_mcdrrc6_r6_lockcapture

GlobalPlist clk_adpll_hcb0_lockcapture [PreBurstPlist spr_reset__ph5_pll_oddball_plist__hvm400] [PostBurstPlist spr_post__ph5_end_gracefully_plist__hvm400] [Flatten] {
  Pat d2979070V5030032D_F0_SR052TSs_Gnm220000benC_XXX1XXV_a080818bXXX02_SR2PTET0SC09x15r_x00_adpll_hcb0_c5_r0_xX_configstatcap;
  Pat d3334008V5361878D_EA_SR053TSs_Gnm220000benC_XXX1XXV_a080818bXXX02_SR2PTET0SC09x15r_x00_adpll_hcb0_c5_r0_x8_lockcap;
} # End of clk_adpll_hcb0_lockcapture

GlobalPlist clk_adpll_pi5c2r8_lockcapture [PreBurstPlist spr_reset__ph5_pll_oddball_plist__hvm400] [PostBurstPlist spr_post__ph5_end_gracefully_plist__hvm400] [Flatten] {
  Pat d3003546V5034490D_F0_SR053TSs_Gnm220000benC_XXX1XXV_a080818bXXX02_SR2PTET0SC09x15r_x00_adpll_pi5_c2_r8_xX_configstatcap;
  Pat d3333999V5362115D_EA_SR053TSs_Gnm220000benC_XXX1XXV_a080818bXXX02_SR2PTET0SC09x15r_x00_adpll_pi5_c2_r8_x20_lockcap;
} # End of clk_adpll_pi5c2r8_lockcapture

GlobalPlist clk_adpll_pi5c4r0_lockcapture [PreBurstPlist spr_reset__ph5_pll_oddball_plist__hvm400] [PostBurstPlist spr_post__ph5_end_gracefully_plist__hvm400] [Flatten] {
  Pat d3003540V5034492D_F0_SR053TSs_Gnm220000benC_XXX1XXV_a080818bXXX02_SR2PTET0SC09x15r_x00_adpll_pi5_c4_r0_xX_configstatcap;
  Pat d3334052V5362116D_EA_SR053TSs_Gnm220000benC_XXX1XXV_a080818bXXX02_SR2PTET0SC09x15r_x00_adpll_pi5_c4_r0_x20_lockcap;
} # End of clk_adpll_pi5c4r0_lockcapture
```

Console Output -> Parsing tuples from input file + check out process

```
scc921043> TestContentTool -INFO- | Content check out will be done using a plist reference
TestContentTool -INFO- | No Overwrite Selected
TestContentTool -INFO- | Running Content Check Out...
TestContentTool -INFO- | Getting content from plist path: /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/adpll_plist.plist
TestContentTool -INFO- | Cnt:0 | Tuple:2975533 | TID:5027791 | SPF name:adpll_mcdrrc6_r6_xX_configstatcap
TestContentTool -INFO- | Cnt:1 | Tuple:3333988 | TID:5361979 | SPF name:adpll_mcdrrc6_r6_x16_lockcap
TestContentTool -INFO- | Cnt:2 | Tuple:2979070 | TID:5030032 | SPF name:adpll_hcb0_c5_r0_xX_configstatcap
TestContentTool -INFO- | Cnt:3 | Tuple:3334008 | TID:5361878 | SPF name:adpll_hcb0_c5_r0_x8_lockcap
TestContentTool -INFO- | Cnt:4 | Tuple:3003546 | TID:5034490 | SPF name:adpll_pi5_c2_r8_xX_configstatcap
TestContentTool -INFO- | Cnt:5 | Tuple:3333999 | TID:5362115 | SPF name:adpll_pi5_c2_r8_x20_lockcap
TestContentTool -INFO- | Cnt:6 | Tuple:3003540 | TID:5034492 | SPF name:adpll_pi5_c4_r0_xX_configstatcap
TestContentTool -INFO- | Cnt:7 | Tuple:3334052 | TID:5362116 | SPF name:adpll_pi5_c4_r0_x20_lockcap
TestContentTool -INFO- | Total Number of patterns: 8

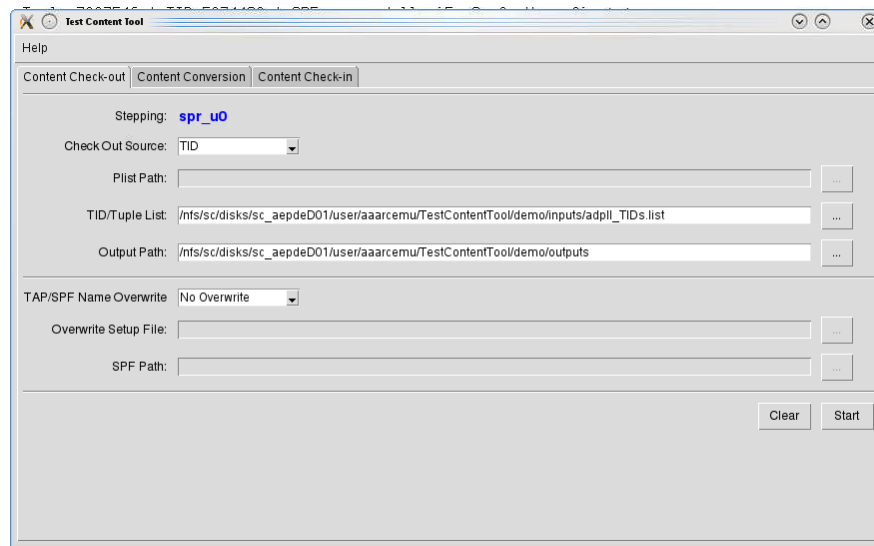
TestContentTool -INFO- | Checking Out: 1/8
/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_plist/d3334052V5362116D_00_SR053TSs_Gnm220000benC_ complete in 0.586 Secs
TestContentTool -INFO- | Checking Out: 2/8
/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_plist/d3003540V5034492D_00_SR053TSs_Gnm220000benC_ complete in 0.360 Secs
TestContentTool -INFO- | Checking Out: 3/8
/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_plist/d3333999V5362115D_00_SR053TSs_Gnm220000benC_ complete in 0.371 Secs
TestContentTool -INFO- | Checking Out: 4/8
/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_plist/d3003546V5034490D_00_SR053TSs_Gnm220000benC_ complete in 0.516 Secs
TestContentTool -INFO- | Checking Out: 5/8
/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_plist/d3334008V5361878D_00_SR053TSs_Gnm220000benC_ complete in 0.580 Secs
TestContentTool -INFO- | Checking Out: 6/8
/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_plist/d2979070V5030032D_00_SR052TSs_Gnm220000benC_ complete in 0.607 Secs
TestContentTool -INFO- | Checking Out: 7/8
/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_plist/d3333988V5361979D_00_SR053TSs_Gnm220000benC_ complete in 0.543 Secs
TestContentTool -INFO- | Checking Out: 8/8
/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_plist/d2975533V5027791D_00_SR052TSs_Gnm220000benC_ complete in 0.508 Secs
TestContentTool -INFO- | Removing reset content from existing content
TestContentTool -INFO- | Check out is Done!
```

Results-> Check-out content on SPF format

```
/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_plist/
|-- adpll_hcb0_c5_r0_x8_lockcap.spf
|-- adpll_hcb0_c5_r0_xX_configstatcap.spf
|-- adpll_mcdrrc6_r6_x16_lockcap.spf
|-- adpll_mcdrrc6_r6_xX_configstatcap.spf
|-- adpll_pi5_c2_r8_x20_lockcap.spf
|-- adpll_pi5_c2_r8_xX_configstatcap.spf
|-- adpll_pi5_c4_r0_x20_lockcap.spf
`-- adpll_pi5_c4_r0_xX_configstatcap.spf
```

3.1.2 Clone SPF content from vault using TID numbers

GUI Set-up



Input Files -> TID.list based on existing pattern

```
scc921043> cat /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/adpl1_TIDs.list
5027791
5361979
5030032
5361878
5034490
5362115
5034492
5362116
```

Console Output -> Parsing tuples from input file + check-out process

```
scc921043> TestContentTool -INFO- | Content check out will be done using a TID list
TestContentTool -INFO- | No Overwrite Selected
TestContentTool -INFO- | Running Content Check Out...
TestContentTool -INFO- | Checkout based on tuples
TestContentTool -INFO- | Content Source path: /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/adpl1_TIDs.list
TestContentTool -INFO- | TID Number:5027791

TestContentTool -INFO- | TID Number:5361979
TestContentTool -INFO- | TID Number:5030032
TestContentTool -INFO- | TID Number:5361878
TestContentTool -INFO- | TID Number:5034490
TestContentTool -INFO- | TID Number:5362115
TestContentTool -INFO- | TID Number:5034492
TestContentTool -INFO- | TID Number:5362116

TestContentTool -INFO- | Total Number of patterns: 8
TestContentTool -INFO- | Checking Out: 1/8

TestContentTool -INFO- | Checking out TID:5362116
vaultmgr -i- Starting Log File
vaultmgr -i- Log file created: /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/SPR_EE/Content/EEC_49p5/PI5/spr_u0/LOGS/vaultmgr.log.16
vaultmgr -i- Command line used:-q test_id = 5362116 -- -co_source /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs
vaultmgr -i- Querying for database tables and names: mysql
vaultmgr -i- Querying for database tables and names: mysql
vaultmgr -i- Searching for test records (stepping.all attributes test.all).
vaultmgr -i- Query complete; retrieved [1] records.
vaultmgr -C- apparate.py -type test co -file /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/SPR_EE/Content/EEC_49p5/PI5/spr_u0/LOGS/input_scc921043_aaarcemu_35005.txt
r/aaarcemu/SPR_EE/Content/EEC_49p5/PI5/spr_u0/LOGS/output_scc921043_aaarcemu_35005.json
Test source files for tid 5362116 checked out to directory:
/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/5362116

vaultmgr -i- Log File Path: /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/SPR_EE/Content/EEC_49p5/PI5/spr_u0/LOGS/vaultmgr.log.16
vaultmgr -i- Encountered 0 errors, 0 warnings
vaultmgr -i- Run time was 5 seconds
TestContentTool -INFO- | Checking Out: 2/8

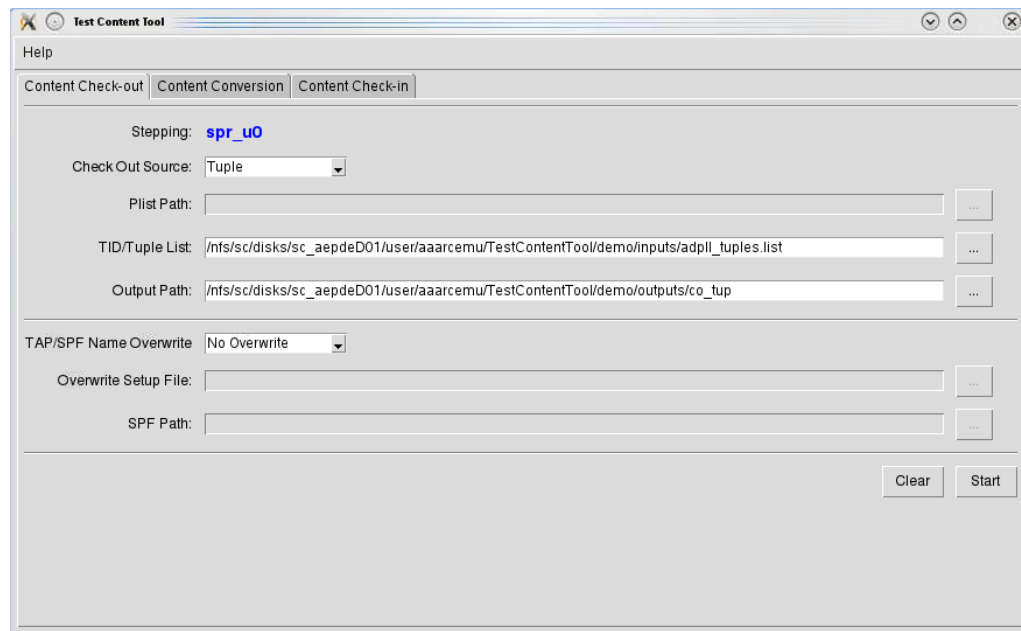
TestContentTool -INFO- | Checking out TID:5034492
vaultmgr -i- Starting Log File
vaultmgr -i- Log file created: /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/SPR_EE/Content/EEC_49p5/PI5/spr_u0/LOGS/vaultmgr.log.17
vaultmgr -i- Command line used:-q test_id = 5034492 -- -co_source /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs
vaultmgr -i- Querying for database tables and names: mysql
vaultmgr -i- Querying for database tables and names: mysql
vaultmgr -i- Searching for test records (stepping.all attributes test.all).
```

Results-> Check-out content on SPF format

```
/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/automationToShare/Test_Content_Tool/demo_Checkout/TID_out/  
|-- adpll_hcb0_c5_r0_x8_lockcap.spf  
|-- adpll_hcb0_c5_r0_xX_configstatcap.spf  
|-- adpll_mcdrr_c6_r6_x16_lockcap.spf  
|-- adpll_mcdrr_c6_r6_xX_configstatcap.spf  
|-- adpll_pi5_c2_r8_x20_lockcap.spf  
|-- adpll_pi5_c2_r8_xX_configstatcap.spf  
|-- adpll_pi5_c4_r0_x20_lockcap.spf  
`-- adpll_pi5_c4_r0_xX_configstatcap.spf
```

3.1.3 Clone SPF content from vault using tuple numbers

GUI Set-up



Input -> TID.list based on existing pattern

```
scc921043> cat /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/adpll_tuples.list  
2975533  
3333988  
2979070  
3334008  
3003546  
3333999  
3003540  
3334052
```


Console Output -> Parsing tuples from input file + check out process

```
scc921043> TestContentTool -INFO- | Content check out will be done using a Tuple list
TestContentTool -INFO- | No Overwrite Selected
TestContentTool -INFO- | Running Content Check Out...
TestContentTool -INFO- | Checkout based on tuples
TestContentTool -INFO- | Content Source path: /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/adpll_tuples.list
TestContentTool -INFO- | Tuple Number:2975533

TestContentTool -INFO- | Tuple Number:3333988
TestContentTool -INFO- | Tuple Number:2979070
TestContentTool -INFO- | Tuple Number:3334008
TestContentTool -INFO- | Tuple Number:3003546
TestContentTool -INFO- | Tuple Number:3333999
TestContentTool -INFO- | Tuple Number:3003540
TestContentTool -INFO- | Tuple Number:3334052
TestContentTool -INFO- | Total Number of patterns: 8
TestContentTool -INFO- | Checking Out: 1/8

/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_tup/d3334052V5362116D_00_SR053TSs_Gnm220000benC_ complete in 0.552 Secs
TestContentTool -INFO- | Checking Out: 2/8

/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_tup/d3003540V5034492D_00_SR053TSs_Gnm220000benC_ complete in 0.913 Secs
TestContentTool -INFO- | Checking Out: 3/8

/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_tup/d3333999V5362115D_00_SR053TSs_Gnm220000benC_ complete in 0.826 Secs
TestContentTool -INFO- | Checking Out: 4/8

/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_tup/d3003546V5034490D_00_SR053TSs_Gnm220000benC_ complete in 0.821 Secs
TestContentTool -INFO- | Checking Out: 5/8

/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_tup/d3334008V5361878D_00_SR053TSs_Gnm220000benC_ complete in 0.766 Secs
TestContentTool -INFO- | Checking Out: 6/8

/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_tup/d2979070V5030032D_00_SR052TSs_Gnm220000benC_ complete in 0.406 Secs
TestContentTool -INFO- | Checking Out: 7/8

/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_tup/d3333988V5361979D_00_SR053TSs_Gnm220000benC_ complete in 0.440 Secs
TestContentTool -INFO- | Checking Out: 8/8

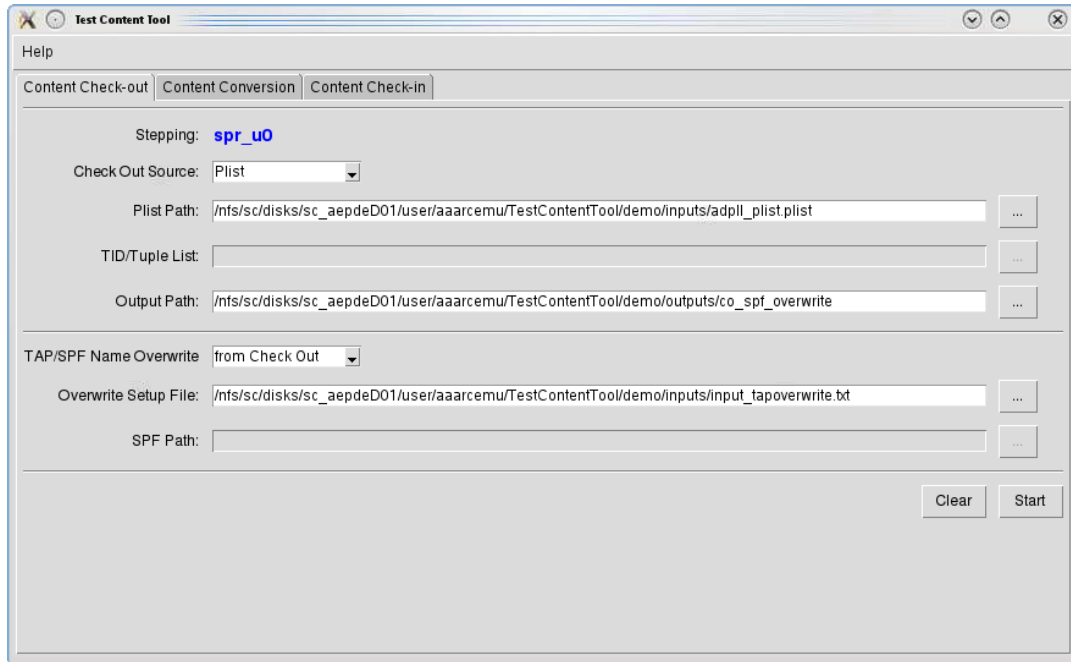
/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_tup/d2975533V5027791D_00_SR052TSs_Gnm220000benC_ complete in 0.509 Secs
TestContentTool -INFO- | Removing reset content from existing content
TestContentTool -INFO- | Check out is Done!
```

Results-> Check-out content on SPF format

```
/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_tup/
|-- adpll_hcb0_c5_r0_x8_lockcap.spf
|-- adpll_hcb0_c5_r0_xX_configstatcap.spf
|-- adpll_mcddr_c6_r6_x16_lockcap.spf
|-- adpll_mcddr_c6_r6_xX_configstatcap.spf
|-- adpll_pi5_c2_r8_x20_lockcap.spf
|-- adpll_pi5_c2_r8_xX_configstatcap.spf
|-- adpll_pi5_c4_r0_x20_lockcap.spf
`-- adpll_pi5_c4_r0_xX_configstatcap.spf
```

3.1.4 Check-out and overwrite SPF Content

GUI Set-up



Input -> TAP Overwrites and SPF renaming based on topology definitions

Two keywords are used to build the input overwrite file: *TAP_EP_Replace* and *SPF_Name_Replace*. First argument is the existing name and second one is the required on new content.

```
scc921043> cat /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/input_tapoverwrite.txt
***** Replace TAP EndPoints Names *****
TAP_EP_Replace,MCDDR_MEE_MCDDR_MEE_C6_R3_D0_MCDDR_CENTRAL_STAP_MCDDR_MEE_C6_R3_D0,MCDDR_MEE_MCDDR_MEE_C4_R3_D0_MCDDR_CENTRAL_STAP_MCDDR_MEE_C4_R3_D0,
TAP_EP_Replace,MCDDR_MEE_MCDDR_MEE_C6_R6_D0_MCDDR_CENTRAL_STAP_MCDDR_MEE_C6_R6_D0,MCDDR_MEE_MCDDR_MEE_C4_R6_D0_MCDDR_CENTRAL_STAP_MCDDR_MEE_C4_R6_D0,
TAP_EP_Replace,HCB_HCB_C5_R0_D0_STAP_CHS_HCB_C5_R0_D0,HCT_HCT_C4_R0_D0_STAP_CHS_HCT_C4_R0_D0,
TAP_EP_Replace,PI5_P15_C4_R0_D0_STAP_MISC_P15_C4_R0_D0,PI5_P15_C3_R0_D0_STAP_MISC_P15_C3_R0_D0,
TAP_EP_Replace,PI5_P15_C4_R8_D0_STAP_MISC_P15_C4_R8_D0,PI5_P15_C3_R8_D0_STAP_MISC_P15_C3_R8_D0,
TAP_EP_Replace,PI5_P15_C4_R0_D0_HSPHY_PMA_OCTLANE0_P15_C4_R0_D0_PMA_DFX_STAPPMA_OCTLANE0_P15_C4_R0_D0,PI5_P15_C3_R0_D0_HSPHY_PMA_OCTLANE0_P15_C3_R0_D0_PMA_DFX_STAPPMA_OCTLANE0_P15_C3_R0_D0,
TAP_EP_Replace,PI5_P15_C4_R0_D0_HSPHY_PMA_OCTLANE1_P15_C4_R0_D0_PMA_DFX_STAPPMA_OCTLANE1_P15_C4_R0_D0,PI5_P15_C3_R0_D0_HSPHY_PMA_OCTLANE1_P15_C3_R0_D0_PMA_DFX_STAPPMA_OCTLANE1_P15_C3_R0_D0,
TAP_EP_Replace,PI5_P15_C4_R8_D0_HSPHY_PMA_OCTLANE0_P15_C4_R8_D0_PMA_DFX_STAPPMA_OCTLANE0_P15_C4_R8_D0,PI5_P15_C3_R8_D0_HSPHY_PMA_OCTLANE0_P15_C3_R8_D0_PMA_DFX_STAPPMA_OCTLANE0_P15_C3_R8_D0,
TAP_EP_Replace,PI5_P15_C4_R8_D0_HSPHY_PMA_OCTLANE1_P15_C4_R8_D0_PMA_DFX_STAPPMA_OCTLANE1_P15_C4_R8_D0,PI5_P15_C3_R8_D0_HSPHY_PMA_OCTLANE1_P15_C3_R8_D0_PMA_DFX_STAPPMA_OCTLANE1_P15_C3_R8_D0,
TAP_EP_Replace,HCB_HCB_C5_R0_D0_STAP_CHS_HCB_C5_R0_D0,HCT_HCT_C4_R0_D0_STAP_CHS_HCT_C4_R0_D0,
TAP_EP_Replace,PI5_P15_C4_R0_D0_STAP_MISC_P15_C4_R0_D0,PI5_P15_C3_R0_D0_STAP_MISC_P15_C3_R0_D0,
TAP_EP_Replace,PI5_P15_C4_R8_D0_STAP_MISC_P15_C4_R8_D0,PI5_P15_C3_R8_D0_STAP_MISC_P15_C3_R8_D0,
TAP_EP_Replace,PI5_P15_C4_R0_D0_HSPHY_PMA_OCTLANE0_P15_C4_R0_D0_PMA_DFX_STAPPMA_OCTLANE0_P15_C4_R0_D0,PI5_P15_C3_R0_D0_HSPHY_PMA_OCTLANE0_P15_C3_R0_D0_PMA_DFX_STAPPMA_OCTLANE0_P15_C3_R0_D0,
TAP_EP_Replace,PI5_P15_C4_R0_D0_HSPHY_PMA_OCTLANE1_P15_C4_R0_D0_PMA_DFX_STAPPMA_OCTLANE1_P15_C4_R0_D0,PI5_P15_C3_R0_D0_HSPHY_PMA_OCTLANE1_P15_C3_R0_D0_PMA_DFX_STAPPMA_OCTLANE1_P15_C3_R0_D0,
TAP_EP_Replace,PI5_P15_C4_R8_D0_HSPHY_PMA_OCTLANE0_P15_C4_R8_D0_PMA_DFX_STAPPMA_OCTLANE0_P15_C4_R8_D0,PI5_P15_C3_R8_D0_HSPHY_PMA_OCTLANE0_P15_C3_R8_D0_PMA_DFX_STAPPMA_OCTLANE0_P15_C3_R8_D0,
TAP_EP_Replace,PI5_P15_C4_R8_D0_HSPHY_PMA_OCTLANE1_P15_C4_R8_D0_PMA_DFX_STAPPMA_OCTLANE1_P15_C4_R8_D0,PI5_P15_C3_R8_D0_HSPHY_PMA_OCTLANE1_P15_C3_R8_D0_PMA_DFX_STAPPMA_OCTLANE1_P15_C3_R8_D0,
***** Replace SPF Names *****
SPF_Name_Replace,hcb0_c5_,hct_c4_,
SPF_Name_Replace,mcddr_c6_,mcddr_c4_,
SPF_Name_Replace,p15_c4_,p15_c3_,
```

Console Output -> Checkout content from existing plist, overwriting endpoint TAP names and SPF names based on input definitions

```
scc921043> TestContentTool -INFO- | Content check out will be done using a plist reference
TestContentTool -INFO- | Content Check out will be overwritten
TestContentTool -INFO- | Running Content Check Out...
TestContentTool -INFO- | Getting content from plist path: /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/adpll_plist.plist
TestContentTool -INFO- | Cnt:0 | Tuple:2975533 | TID:5027791 | SPF name:adpll_mcdrr_c6_r6_xX_configstatcap
TestContentTool -INFO- | Cnt:1 | Tuple:3333988 | TID:5361979 | SPF name:adpll_mcdrr_c6_r6_x16_lockcap
TestContentTool -INFO- | Cnt:2 | Tuple:2979070 | TID:5030032 | SPF name:adpll_hcb0_c5_r0_xX_configstatcap
TestContentTool -INFO- | Cnt:3 | Tuple:3334008 | TID:5361878 | SPF name:adpll_hcb0_c5_r0_x8_lockcap
TestContentTool -INFO- | Cnt:4 | Tuple:3003546 | TID:5034490 | SPF name:adpll_pi5_c2_r8_xX_configstatcap
TestContentTool -INFO- | Cnt:5 | Tuple:3333999 | TID:5362115 | SPF name:adpll_pi5_c2_r8_x20_lockcap
TestContentTool -INFO- | Cnt:6 | Tuple:3003540 | TID:5034492 | SPF name:adpll_pi5_c4_r0_xX_configstatcap
TestContentTool -INFO- | Cnt:7 | Tuple:3334052 | TID:5362116 | SPF name:adpll_pi5_c4_r0_x20_lockcap
TestContentTool -INFO- | Total Number of patterns: 8

TestContentTool -INFO- | Checking Out: 1/8

/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_spf_overwrite/d3334052V5362116D_00_SR053TSs_Gnm220000benC_ complete in 0.678 Secs
TestContentTool -INFO- | Checking Out: 2/8

/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_spf_overwrite/d3003540V5034492D_00_SR053TSs_Gnm220000benC_ complete in 0.477 Secs
TestContentTool -INFO- | Checking Out: 3/8

/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_spf_overwrite/d3333999V5362115D_00_SR053TSs_Gnm220000benC_ complete in 0.457 Secs
TestContentTool -INFO- | Checking Out: 4/8

/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_spf_overwrite/d3003546V5034490D_00_SR053TSs_Gnm220000benC_ complete in 0.609 Secs
TestContentTool -INFO- | Checking Out: 5/8

/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_spf_overwrite/d3334008V5361878D_00_SR053TSs_Gnm220000benC_ complete in 0.474 Secs
TestContentTool -INFO- | Checking Out: 6/8

/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_spf_overwrite/d2979070V5030032D_00_SR052TSs_Gnm220000benC_ complete in 0.452 Secs
TestContentTool -INFO- | Checking Out: 7/8

/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_spf_overwrite/d3333988V5361979D_00_SR053TSs_Gnm220000benC_ complete in 0.459 Secs
TestContentTool -INFO- | Checking Out: 8/8

/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_spf_overwrite/d2975533V5027791D_00_SR052TSs_Gnm220000benC_ complete in 0.495 Secs
TestContentTool -INFO- | Removing reset content from existing content
TestContentTool -INFO- | Overwriting content with new endpoint names...
TestContentTool -INFO- | Using existing SPF folder
TestContentTool -INFO- | Content location to Overwrite:/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_spf_overwrite
TestContentTool -INFO- | Overwrite Setup Input File:/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/input_tapoverwrite.txt
TestContentTool -INFO- | Updating File Name ->-> from adpll_pi5_c4_r0_x20_lockcap.spf to adpll_pi5_c3_r0_x20_lockcap.spf
TestContentTool -INFO- | Updating File Name ->-> from adpll_pi5_c4_r0_xX_configstatcap.spf to adpll_pi5_c3_r0_xX_configstatcap.spf
TestContentTool -INFO- | Updating File Name ->-> from adpll_hcb0_c5_r0_x8_lockcap.spf to adpll_hct_c4_r0_x8_lockcap.spf
TestContentTool -INFO- | Updating File Name ->-> from adpll_hcb0_c5_r0_xX_configstatcap.spf to adpll_hct_c4_r0_xX_configstatcap.spf
TestContentTool -INFO- | Updating File Name ->-> from adpll_mcdrr_c6_r6_x16_lockcap.spf to adpll_mcdrr_c4_r6_x16_lockcap.spf
TestContentTool -INFO- | Updating File Name ->-> from adpll_mcdrr_c6_r6_xX_configstatcap.spf to adpll_mcdrr_c4_r6_xX_configstatcap.spf
TestContentTool -INFO- | Check out is Done!
```

Results-> Check-out content and updated it with new TAP names:

```
/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_spf_overwrite/
|-- adpll_hct_c4_r0_x8_lockcap.spf
|-- adpll_hct_c4_r0_xX_configstatcap.spf
|-- adpll_mcdrr_c4_r6_x16_lockcap.spf
|-- adpll_mcdrr_c4_r6_xX_configstatcap.spf
|-- adpll_pi5_c2_r8_x20_lockcap.spf
|-- adpll_pi5_c2_r8_xX_configstatcap.spf
|-- adpll_pi5_c3_r0_x20_lockcap.spf
-- adpll_pi5_c3_r0_xX_configstatcap.spf
```

Comparison between old and new content:

adpll_mcdrr_c4_r6_x16_lockcap.spf		/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_plist/adpll_mcdrr_c6_r6_x16_lockcap.spf
pass itpp "label: platform_split_topology_1111;";		pass itpp "label: platform_split_topology_1111;";
pass itpp "vector: TMS(0), 4;";		pass itpp "vector: TMS(0), 4;";
# ***** Capture clockgen status SIC1		# ***** Capture clockgen status SIC1
pass itpp "no_compress: start;";		pass itpp "no_compress: start;";
focus_tap MCDRR_MEE_MCDRR_MEE_C4_R6_D0_MCDRR_CENTRAL_STAP_MCDRR_MEE_C4_R6_D0;	→	focus_tap MCDRR_MEE_MCDRR_MEE_C6_R6_D0_MCDRR_CENTRAL_STAP_MCDRR_MEE_C6_R6_D0;
set CRIRTD0->ADDR = 'h4808;		set CRIRTD0->ADDR = 'h4808;
set CRIRTD0->VALID_RW = 'b1;		set CRIRTD0->VALID_RW = 'b1;
set CRIRTD0->BE = 'hf;		set CRIRTD0->BE = 'hf;
flush;		flush;
cycle 10;		cycle 10;
label "R0_CLKI_STATUS_dword2_SIC1";		label "R0_CLKI_STATUS_dword2_SIC1";
capture CRIRTD0->DATA;		capture CRIRTD0->DATA;
mask CRIRTD0->DATA;		mask CRIRTD0->DATA;
flush;		flush;
pass itpp "no_compress: stop;";		pass itpp "no_compress: stop;";
# ***** Capture PLL lock status SIC1		# ***** Capture PLL lock status SIC1
pass itpp "no_compress: start;";		pass itpp "no_compress: start;";
focus_tap MCDRR_MEE_MCDRR_MEE_C4_R6_D0_MCDRR_CENTRAL_STAP_MCDRR_MEE_C4_R6_D0;	→	focus_tap MCDRR_MEE_MCDRR_MEE_C6_R6_D0_MCDRR_CENTRAL_STAP_MCDRR_MEE_C6_R6_D0;

3.1.5 Overwrite SPF Content based on existing folder

GUI Set-up

Test Content Tool

Help

Content Check-out | **Content Conversion** | Content Check-in

Stepping: **spr_u0**

Check Out Source:

Plist Path: ...

TID/Tuple List: ...

Output Path: ...

TAP/SPF Name Overwrite: **from SPF Folder**

Overwrite Setup File: ...

SPF Path: ...

Clear Start

Input -> Folder with SPF files to overwrite:

```
scc921043> cat inputs/input_tapoverwrite.txt
***** Replace TAP EndPoints Names *****
TAP_EP_Replace,MCCDR_MEE_MCCDR_MEE_C6_R3_D0_MCCDR_CENTRAL_STAP_MCCDR_MEE_C6_R3_D0,MCCDR_MEE_MCCDR_MEE_C4_R3_D0_MCCDR_CENTRAL_STAP_MCCDR_MEE_C4_R3_D0,
TAP_EP_Replace,MCCDR_MEE_MCCDR_MEE_C6_R6_D0_MCCDR_CENTRAL_STAP_MCCDR_MEE_C6_R6_D0,MCCDR_MEE_MCCDR_MEE_C4_R6_D0_MCCDR_CENTRAL_STAP_MCCDR_MEE_C4_R6_D0,
TAP_EP_Replace,HCB_HCB_C5_R0_D0_STAP_CHS_HCB_C5_R0_D0,HCT_HCT_C4_R0_D0_STAP_CHS_HCT_C4_R0_D0,
TAP_EP_Replace,P15_P15_C4_R0_D0_STAP_MISC_P15_C4_R0_D0,P15_P15_C3_R0_D0_STAP_MISC_P15_C3_R0_D0,
TAP_EP_Replace,P15_P15_C4_R8_D0_STAP_MISC_P15_C4_R8_D0,P15_P15_C3_R8_D0_STAP_MISC_P15_C3_R8_D0,
TAP_EP_Replace,P15_P15_C4_R0_D0_HSPHY_PMA_OCTLANE0_P15_C4_R0_D0_PMA_DFX_STAPPMA_OCTLANE0_P15_C4_R0_D0,P15_P15_C3_R0_D0_HSPHY_PMA_OCTLANE0_P15_C3_R0_D0_PMA_DFX_STAPPMA_OCTLANE0_P15_C3_R0_D0,
TAP_EP_Replace,P15_P15_C4_R0_D0_HSPHY_PMA_OCTLANE1_P15_C4_R0_D0_PMA_DFX_STAPPMA_OCTLANE1_P15_C4_R0_D0,P15_P15_C3_R0_D0_HSPHY_PMA_OCTLANE1_P15_C3_R0_D0_PMA_DFX_STAPPMA_OCTLANE1_P15_C3_R0_D0,
TAP_EP_Replace,P15_P15_C4_R8_D0_HSPHY_PMA_OCTLANE0_P15_C4_R8_D0_PMA_DFX_STAPPMA_OCTLANE0_P15_C4_R8_D0,P15_P15_C3_R8_D0_HSPHY_PMA_OCTLANE0_P15_C3_R8_D0_PMA_DFX_STAPPMA_OCTLANE0_P15_C3_R8_D0,
TAP_EP_Replace,P15_P15_C4_R8_D0_HSPHY_PMA_OCTLANE1_P15_C4_R8_D0_PMA_DFX_STAPPMA_OCTLANE1_P15_C4_R8_D0,P15_P15_C3_R8_D0_HSPHY_PMA_OCTLANE1_P15_C3_R8_D0_PMA_DFX_STAPPMA_OCTLANE1_P15_C3_R8_D0,
TAP_EP_Replace,HCB_HCB_C5_R0_D0_STAP_CHS_HCB_C5_R0_D0,HCT_HCT_C4_R0_D0_STAP_CHS_HCT_C4_R0_D0,
TAP_EP_Replace,P15_P15_C4_R0_D0_STAP_MISC_P15_C4_R0_D0,P15_P15_C3_R0_D0_STAP_MISC_P15_C3_R0_D0,
TAP_EP_Replace,P15_P15_C4_R8_D0_STAP_MISC_P15_C4_R8_D0,P15_P15_C3_R8_D0_STAP_MISC_P15_C3_R8_D0,
TAP_EP_Replace,P15_P15_C4_R0_D0_HSPHY_PMA_OCTLANE0_P15_C4_R0_D0_PMA_DFX_STAPPMA_OCTLANE0_P15_C4_R0_D0,P15_P15_C3_R0_D0_HSPHY_PMA_OCTLANE0_P15_C3_R0_D0_PMA_DFX_STAPPMA_OCTLANE0_P15_C3_R0_D0,
TAP_EP_Replace,P15_P15_C4_R8_D0_HSPHY_PMA_OCTLANE0_P15_C4_R8_D0_PMA_DFX_STAPPMA_OCTLANE0_P15_C4_R8_D0,P15_P15_C3_R8_D0_HSPHY_PMA_OCTLANE0_P15_C3_R8_D0_PMA_DFX_STAPPMA_OCTLANE0_P15_C3_R8_D0,
TAP_EP_Replace,P15_P15_C4_R0_D0_HSPHY_PMA_OCTLANE1_P15_C4_R0_D0_PMA_DFX_STAPPMA_OCTLANE1_P15_C4_R0_D0,P15_P15_C3_R0_D0_HSPHY_PMA_OCTLANE1_P15_C3_R0_D0_PMA_DFX_STAPPMA_OCTLANE1_P15_C3_R0_D0,
TAP_EP_Replace,P15_P15_C4_R8_D0_HSPHY_PMA_OCTLANE1_P15_C4_R8_D0_PMA_DFX_STAPPMA_OCTLANE1_P15_C4_R8_D0,P15_P15_C3_R8_D0_HSPHY_PMA_OCTLANE1_P15_C3_R8_D0_PMA_DFX_STAPPMA_OCTLANE1_P15_C3_R8_D0,
***** Replace SPF Names *****
SPF_Name_Replace,hcb0_c5_hct_c4,
SPF_Name_Replace,mccdr_c6_mccdr_c4,
SPF_Name_Replace,p15_c4_p15_c3,
```

Console Output -> Parse content and overwrite names based on input overwrite definitions

```
scc921043> TestContentTool -INFO- | Content Check out will be overwritten
TestContentTool -INFO- | Content from existing SPF folder will be overwritten
TestContentTool -INFO- | Running Content Check Out...
TestContentTool -INFO- | Overwriting content with new endpoint names...
TestContentTool -INFO- | Overwriting from check out folder
TestContentTool -INFO- | Content location to Overwrite:/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/spf_to_overwrite
TestContentTool -INFO- | Overwrite Setup Input File:/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/input_tapoverwrite.txt
TestContentTool -INFO- | Updating File Name ->-> from adpll_p15_c4_r0_x20_lockcap.spf to adpll_p15_c3_r0_x20_lockcap.spf
TestContentTool -INFO- | Updating File Name ->-> from adpll_p15_c4_r0_xX_configstatcap.spf to adpll_p15_c3_r0_xX_configstatcap.spf
TestContentTool -INFO- | Updating File Name ->-> from adpll_hcb0_c5_r0_x8_lockcap.spf to adpll_hct_c4_r0_x8_lockcap.spf
TestContentTool -INFO- | Updating File Name ->-> from adpll_hcb0_c5_r0_xX_configstatcap.spf to adpll_hct_c4_r0_xX_configstatcap.spf
TestContentTool -INFO- | Updating File Name ->-> from adpll_mccdr_c6_r6_x16_lockcap.spf to adpll_mccdr_c4_r6_x16_lockcap.spf
TestContentTool -INFO- | Updating File Name ->-> from adpll_mccdr_c6_r6_xX_configstatcap.spf to adpll_mccdr_c4_r6_xX_configstatcap.spf
TestContentTool -INFO- | Check out is Done!
```

Results -> Content using new TAP EndPoints names

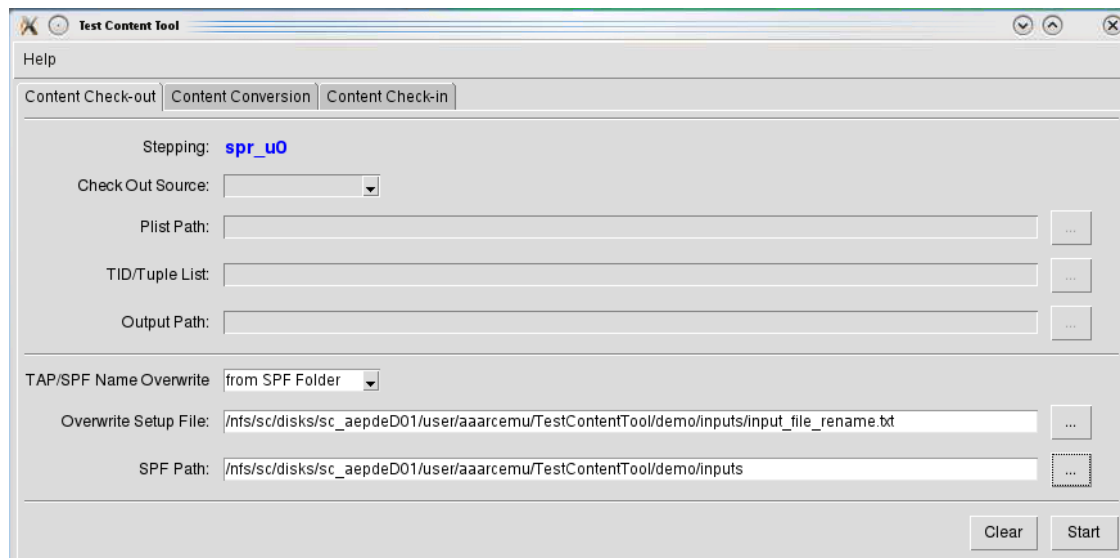
```
scc921043> tree /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/spf_mcc
/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/spf_mcc
|-- adpll_hcb0_c5_r0_x8_lockcap.spf
|-- adpll_hcb0_c5_r0_xX_configstatcap.spf
|-- adpll_mcdrr_c6_r6_x16_lockcap.spf
|-- adpll_mcdrr_c6_r6_xX_configstatcap.spf
|-- adpll_pi5_c2_r8_x20_lockcap.spf
|-- adpll_pi5_c2_r8_xX_configstatcap.spf
|-- adpll_pi5_c4_r0_x20_lockcap.spf
-- adpll_pi5_c4_r0_xX_configstatcap.spf
```

Comparison between old and new content:

Old Content (Left)	New Content (Right)
pass itpp "label: platform_split_topology_1111";	pass itpp "label: platform_split_topology_1111";
pass itpp "vector: TMS(0), 4;";	pass itpp "vector: TMS(0), 4;";
# ***** Capture clockgen status SIC1	# ***** Capture clockgen status SIC1
pass itpp "no_compress: start;";	pass itpp "no_compress: start;";
focus_tap PI5_P15_C3_R0_D0_STAP_MISC_PI5_C3_R0_D0;	focus_tap PI5_P15_C4_R0_D0_STAP_MISC_PI5_C4_R0_D0;
set CRIRTDRO->ADDR = 'h4808;	set CRIRTDRO->ADDR = 'h4808;
set CRIRTDRO->VALID_RW = 'b1;	set CRIRTDRO->VALID_RW = 'b1;
set CRIRTDRO->BE = 'hf;	set CRIRTDRO->BE = 'hf;
flush;	flush;
cycle 10;	cycle 10;
label "RD_CLKI_STATUS_dword2_SIC1";	label "RD_CLKI_STATUS_dword2_SIC1";
capture CRIRTDRO->DATA;	capture CRIRTDRO->DATA;
mask CRIRTDRO->DATA;	mask CRIRTDRO->DATA;
flush;	flush;
pass itpp "no_compress: stop;";	pass itpp "no_compress: stop;";
# ***** Capture PLL lock status SIC1	# ***** Capture PLL lock status SIC1
pass itpp "no_compress: start;";	pass itpp "no_compress: start;";
focus_tap PI5_P15_C3_R0_D0_STAP_MISC_PI5_C3_R0_D0;	focus_tap PI5_P15_C4_R0_D0_STAP_MISC_PI5_C4_R0_D0;
set CRIRTDRO->ADDR = 'h4988;	set CRIRTDRO->ADDR = 'h4988;
set CRIRTDRO->VALID_RW = 'b1;	set CRIRTDRO->VALID_RW = 'b1;
set CRIRTDRO->BE = 'hf;	set CRIRTDRO->BE = 'hf;
flush;	flush;
cycle 10;	cycle 10;
label "RD_GEN4_ADPLL_LOCK_R0_SIC1";	label "RD_GEN4_ADPLL_LOCK_R0_SIC1";
capture CRIRTDRO->DATA;	capture CRIRTDRO->DATA;
mask CRIRTDRO->DATA;	mask CRIRTDRO->DATA;
flush;	flush;
pass itpp "no_compress: stop;";	pass itpp "no_compress: stop;";
comment "Capture CLK_dword0 SIC1";	comment "Capture CLK_dword0 SIC1";
pass itpp "no_compress: start;";	pass itpp "no_compress: start;";
focus_tap PI5_P15_C3_R0_D0_STAP_MISC_PI5_C3_R0_D0;	focus_tap PI5_P15_C4_R0_D0_STAP_MISC_PI5_C4_R0_D0;
set CRIRTDRO->ADDR = 'h4988;	set CRIRTDRO->ADDR = 'h4988;

3.1.6 SPF/Files renaming

GUI Set-up



Input -> Using same input overwrite to rename files on specific location

```
scc921043> cat /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/input_file_rename.txt
***** Replace SPF Names *****
SPF_Name_Replace,hcb0_c5_,hct_c4_,
SPF_Name_Replace,mcddr_c6_,mcddr_c4_,
SPF_Name_Replace,pi5_c4_,pi5_c3_,
```

Console Output

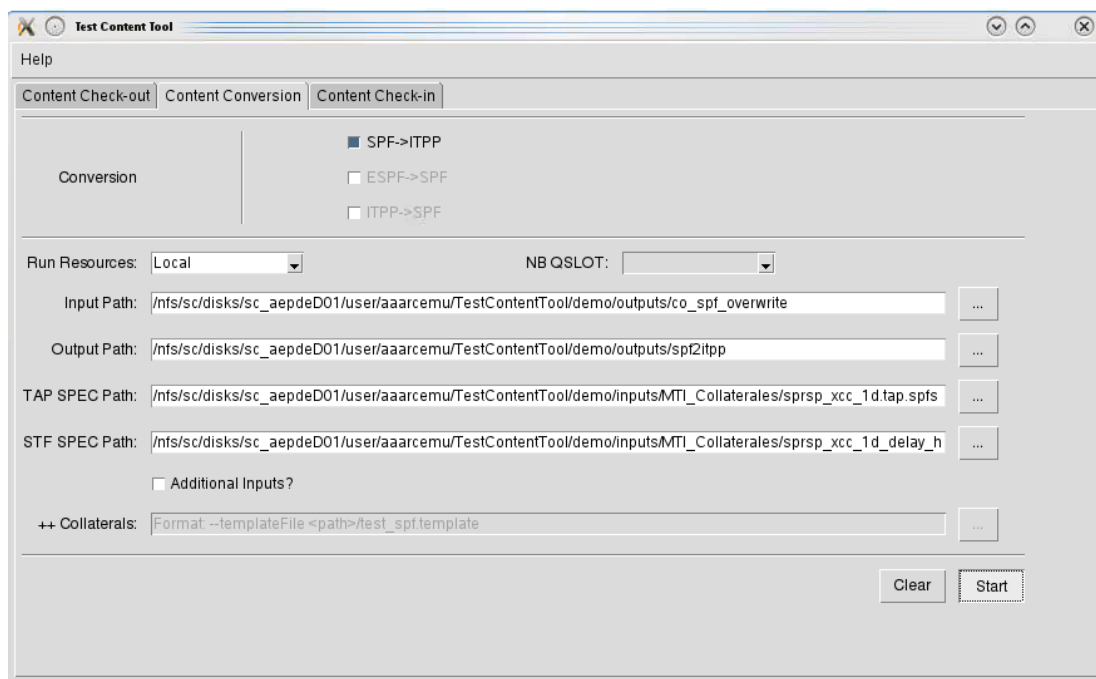
```
scc921043> TestContentTool -INFO- | TAP Overwrite Selected
TestContentTool -INFO- | Running Check Out
TestContentTool -INFO- | Starting TAP Overwrites...
TestContentTool -INFO- | Overwriting from check out folder
TestContentTool -INFO- | Content location to Overwrite:/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/automationToShare/Test_Content_Tool/demo_Checkout_Overwrite/spf
TestContentTool -INFO- | Overwrite Setup Input File:/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/automationToShare/Test_Content_Tool/demo_Checkout_Overwrite/input_file_rename.
TestContentTool -INFO- | Done
```

3.2 Content Conversion

Most common and popular formats used by PDE teams are SPF, ESPF and ITPP formats. PDE teams require to convert files from/to specific format based on their specific needs. This utility allows to user quickly convert multiples files from one format to another format; user only need to specify their collaterals (tapspec, stfspec, etc). This conversion can be done using the local machine resources or Netbatch resources, recommended this last option if amount of files is big.

3.2.1 SPF to ITPP conversion

GUI Set-up



Console Output -> SPF to ITPP conversion

```

scc921043> TestContentTool -INFO- | SPF TO ITPP Selected
TestContentTool -INFO- | Resource selected:Local

=====

TestContentTool -INFO- | Running conversion...
TestContentTool -INFO- | Total Number of Files received:
SPF: 8
ITPP: 0
ESPF: 0

TestContentTool -INFO- | Converting file /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_spf_overwrite/adp11_pi5_c3_r0_xX_configstatcap.spf
TestContentTool -INFO- | Executing (no extra collaterals) --> ----> /p/hdk/cad/spf/latest/bin/spf --tapSpecFile /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/MTI_Collaterales/sprsp_xcc_id.tap.spf --stfSpecFile /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/MTI_Collaterales/sprsp_xcc_id_delay_hack.stf.spf --testSeqFile /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_spf_overwrite/adp11_pi5_c3_r0_xX_configstatcap.spf --itppFile /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/spf2itpp/adp11_pi5_c3_r0_xX_configstatcap.itpp

Resolving command line ...

File Generated by: SPF
Version : cmts_eng.2021.uw51a
User : aaarcemu
Host : scc921043.sc.intel.com
Time : Wed Dec 15 10:20:36 2021

Actual Command Line:

/p/hdk/cad/spf/latest/bin/spf --tapSpecFile /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/MTI_Collaterales/sprsp_xcc_id.tap.spf --stfSpecFile /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/MTI_Collaterales/sprsp_xcc_id_delay_hack.stf.spf --testSeqFile /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_spf_overwrite/adp11_pi5_c3_r0_xX_configstatcap.spf --itppFile /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/spf2itpp/adp11_pi5_c3_r0_xX_configstatcap.itpp

=====

TAP Mode Launching...

Reading Tap Collateral File :

scc921043> kill Tap Collateral file read complete....

Begin Tap Architecture set up...

Ordering Tap Instances complete...

*****
*****
Total TAP cycles = 5680
IR cycles = 1248
DR cycles = 4432
IDLE cycles = 0
Total STF Packets = 0

STF Packets Break-down:
- STF Non-NOP Packets for Network Program = 0
- Other Non-NOP Packets = 0
- Total NOP Packets = 0
-- NOP GID=0 Packets = 0
--- NOP GID=0 Packets added by user = 0
--- NOP GID=0 Packets due to interleaving = 0
-- NOP GID>0 Packets = 0
--- NOP GID>0 Packets added by user = 0
--- NOP GID>0 Packets for Network Program = 0
--- NOP GID>0 Packets due to autoflush in interleaving = 0
--- NOP GID>0 Packets due to autoflush in non-interleaving = 0
--- NOP GID>0 Packets due to interleaving = 0
*****
*****

Real time = 0:00:14(14) User time = 0:00:11(11) System time = 0:00:01(1) Memory usage = 6.02G
Exiting SPF...

TestContentTool -INFO- | Total Files Converted: 8
!!
TestContentTool -INFO- | Content Conversion is Done!

```

Results-> New files on itpp format

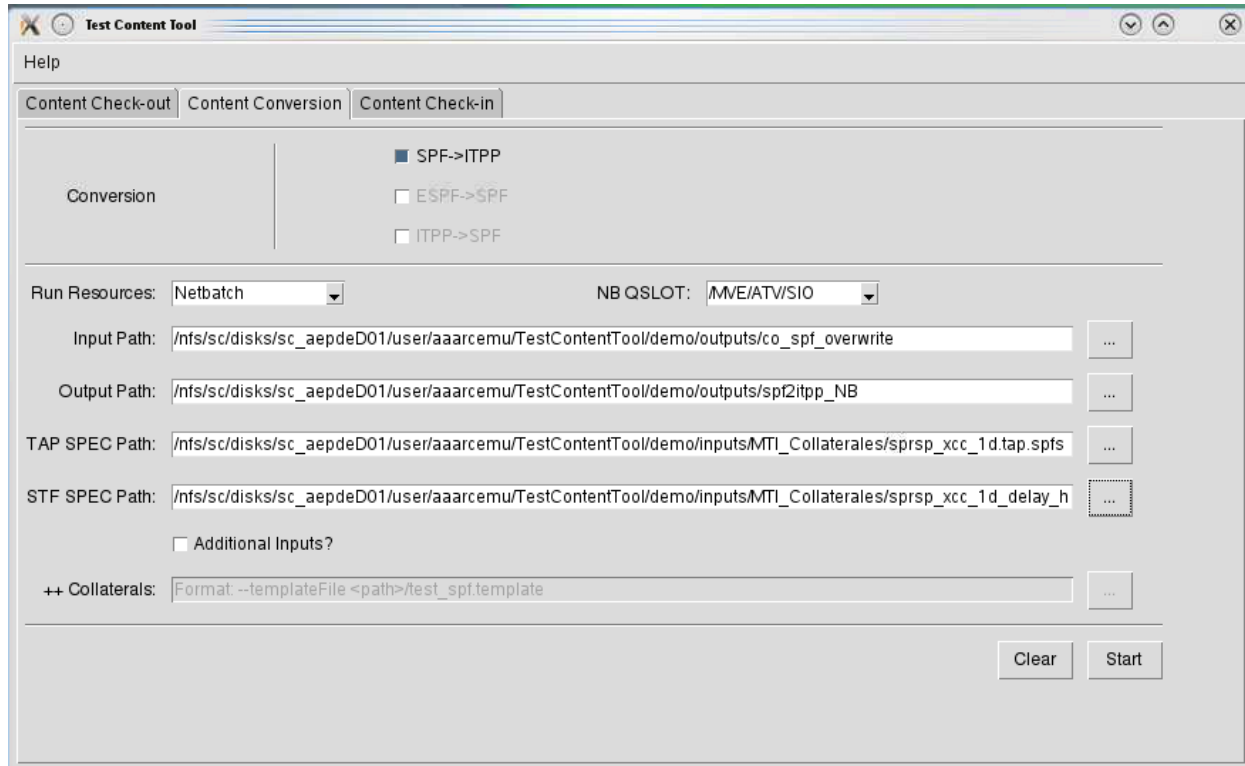
```

/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/spf2itpp
|-- adp11_hct_c4_r0_x8_lockcap.itpp
|-- adp11_hct_c4_r0_xX_configstatcap.itpp
|-- adp11_mcddr_c4_r6_x16_lockcap.itpp
|-- adp11_mcddr_c4_r6_xX_configstatcap.itpp
|-- adp11_mcddr_c6_r6_x16_lockcap.itpp
|-- adp11_pi5_c2_r8_x20_lockcap.itpp
|-- adp11_pi5_c2_r8_xX_configstatcap.itpp
|-- adp11_pi5_c3_r0_x20_lockcap.itpp
`-- adp11_pi5_c3_r0_xX_configstatcap.itpp

```


3.2.2 SPF to ITPP conversion (using NetBatch)

GUI Set-up



Console Output -> SPF to ITPP conversion, jobs assigned on NB queue

```
scc921043> TestContentTool -INFO- | SPF TO ITPP Selected
TestContentTool -INFO- | Resource selected:Netbatch
TestContentTool -INFO- | NB SLOT selected:/MVE/ATV/SIO

=====

TestContentTool -INFO- | Running conversion...
TestContentTool -INFO- | Total Number of Files received:
SPF: 8
ITPP: 0
ESPF: 0

TestContentTool -INFO- | Converting file /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_spf_overwrite/adpll_pi5_c3_r0_xX_configstatcap.spf to ITPP Format
TestContentTool -INFO- | Executing (no extra collaterals) --> --> nbq -P sc_normal -C SLES11SP4&&1286 -Q /MVE/ATV/SIO /p/hdk/cad/spf/latest/bin/spf --tapSpecFile /nfs/
/user/aaarcemu/TestContentTool/demo/inputs/MTI_Collaterales/sprsp_xcc_1d.tap.spspec --stfSpecFile /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/MTI_Collate
delay_hack.stf.spspec --testSeqFile /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_spf_overwrite/adpll_pi5_c3_r0_xX_configstatcap.spf --itppFile /nfs/sc/disk
user/aaarcemu/TestContentTool/demo/outputs/spf2itpp_NB/adpll_pi5_c3_r0_xX_configstatcap.itppFormat: --templateFile <path>/test_spf.template

Your job has been queued (JobID 15496273856, Class EXPR, Queue Slot /MVE/ATV/SIO)
TestContentTool -INFO- | Converting file /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_spf_overwrite/adpll_hct_c4_r0_x8_lockcap.spf to ITPP Format
TestContentTool -INFO- | Executing (no extra collaterals) --> --> nbq -P sc_normal -C SLES11SP4&&1286 -Q /MVE/ATV/SIO /p/hdk/cad/spf/latest/bin/spf --tapSpecFile /nfs/
/user/aaarcemu/TestContentTool/demo/inputs/MTI_Collaterales/sprsp_xcc_1d.tap.spspec --stfSpecFile /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/MTI_Collate
delay_hack.stf.spspec --testSeqFile /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_spf_overwrite/adpll_hct_c4_r0_x8_lockcap.spf --itppFile /nfs/sc/disk
aaarcemu/TestContentTool/demo/outputs/spf2itpp_NB/adpll_hct_c4_r0_x8_lockcap.itppFormat: --templateFile <path>/test_spf.template
```

```

Your job has been queued (JobID 15496317034, Class EXPR, Queue Slot /MVE/ATV/SIO)
TestContentTool -INFO- | Converting file /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_spf_overwrite/adpll_mcdrr_c4_r6_x16_lockcap.spf to ITPP Format
TestContentTool -INFO- | Executing (no extra collaterals) --> nbq -P sc_normal -C SLES11SP4&&128G -Q /MVE/ATV/SIO /p/hdk/cad/spf/latest/bin/spf --tapSpecFile /nfs/
/user/aaarcemu/TestContentTool/demo/inputs/MTI_Collaterales/sprsp_xcc_id.tap.spfspec --stfSpecFile /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/MTI_Collati
delay_hack.stf.spfspec --testSeqFile /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_spf_overwrite/adpll_mcdrr_c4_r6_x16_lockcap.spf --itppFile /nfs/sc/di
r/aaarcemu/TestContentTool/demo/outputs/spf2itpp_NB/adpll_mcdrr_c4_r6_x16_lockcap.itppFormat: --templateFile <path>/test_spf.template

Your job has been queued (JobID 15496317149, Class EXPR, Queue Slot /MVE/ATV/SIO)
TestContentTool -INFO- | Converting file /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_spf_overwrite/adpll_mcdrr_c4_r6_xX_configstatcap.spf to ITPP F
TestContentTool -INFO- | Executing (no extra collaterals) --> nbq -P sc_normal -C SLES11SP4&&128G -Q /MVE/ATV/SIO /p/hdk/cad/spf/latest/bin/spf --tapSpecFile /nfs/
/user/aaarcemu/TestContentTool/demo/inputs/MTI_Collaterales/sprsp_xcc_id.tap.spfspec --stfSpecFile /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/MTI_Collati
delay_hack.stf.spfspec --testSeqFile /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_spf_overwrite/adpll_mcdrr_c4_r6_xX_configstatcap.spf --itppFile /nfs.
1/user/aaarcemu/TestContentTool/demo/outputs/spf2itpp_NB/adpll_mcdrr_c4_r6_xX_configstatcap.itppFormat: --templateFile <path>/test_spf.template

Your job has been queued (JobID 15496317377, Class EXPR, Queue Slot /MVE/ATV/SIO)
TestContentTool -INFO- | Converting file /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_spf_overwrite/adpll_pi5_c3_r0_x20_lockcap.spf to ITPP Format
TestContentTool -INFO- | Executing (no extra collaterals) --> nbq -P sc_normal -C SLES11SP4&&128G -Q /MVE/ATV/SIO /p/hdk/cad/spf/latest/bin/spf --tapSpecFile /nfs/
/user/aaarcemu/TestContentTool/demo/inputs/MTI_Collaterales/sprsp_xcc_id.tap.spfspec --stfSpecFile /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/MTI_Collati
delay_hack.stf.spfspec --testSeqFile /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/co_spf_overwrite/adpll_pi5_c3_r0_x20_lockcap.spf --itppFile /nfs/sc/disk
aaarcemu/TestContentTool/demo/outputs/spf2itpp_NB/adpll_pi5_c3_r0_x20_lockcap.itppFormat: --templateFile <path>/test_spf.template

Your job has been queued (JobID 15496317735, Class EXPR, Queue Slot /MVE/ATV/SIO)
TestContentTool -INFO- | Total Jobs Submitted to NB queue: 8!!

```

Jobs running on NB queue:

FullID	Status	Wtime	Pool	Queue	Qslot	User
scvp.15496315821	Run	27s	scvp	sc_normal	/MVE/ATV/SIO	aaarcemu
scvp.15496316780	Run	27s	scvp	sc_normal	/MVE/ATV/SIO	aaarcemu
scvp.15496317034	Run	27s	scvp	sc_normal	/MVE/ATV/SIO	aaarcemu
scvp.15496317149	Run		scvp	sc_normal	/MVE/ATV/SIO	aaarcemu
scvp.15496317377	Run		scvp	sc_normal	/MVE/ATV/SIO	aaarcemu
scvp.15496317735	Run		scvp	sc_normal	/MVE/ATV/SIO	aaarcemu

Once all job is completed, your itpp will be available on specified output folder.

Results-> New files on iTPP format

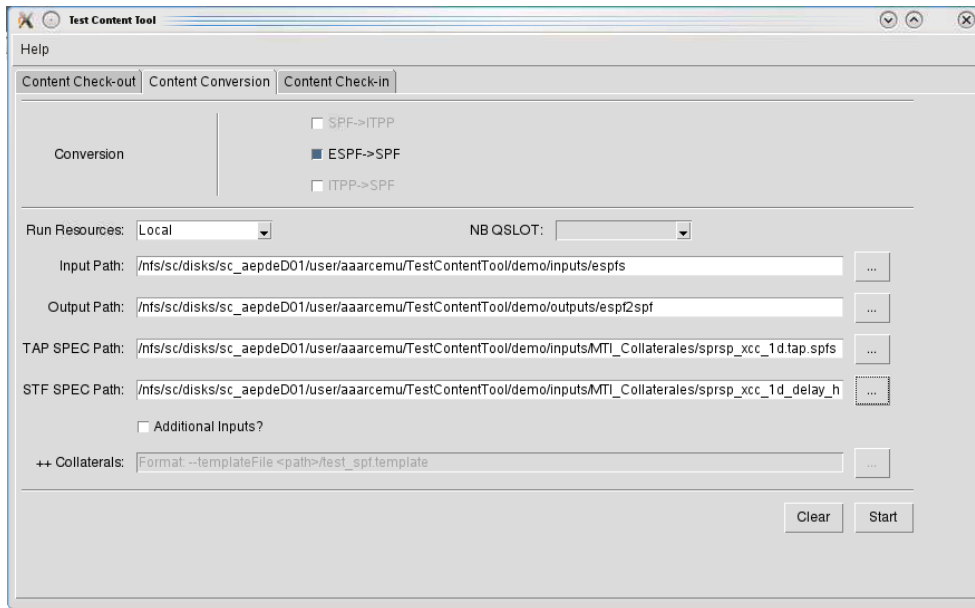
```

/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/spf2itpp_NB
|-- adpll_hct_c4_r0_x8_lockcap.itpp
|-- adpll_hct_c4_r0_xX_configstatcap.itpp
|-- adpll_mcdrr_c4_r6_x16_lockcap.itpp
|-- adpll_mcdrr_c4_r6_xX_configstatcap.itpp
|-- adpll_pi5_c2_r8_x20_lockcap.itpp
|-- adpll_pi5_c2_r8_xX_configstatcap.itpp
|-- adpll_pi5_c3_r0_x20_lockcap.itpp
`-- adpll_pi5_c3_r0_xX_configstatcap.itpp

```

3.2.3 ESPF to ITPP/SPF conversion

GUI Set-up



Console Output -> File conversion using local resources

```
scc921043> TestContentTool -INFO- | ESPF TO ITPP/SPF Selected
TestContentTool -INFO- | Resource selected:Local

=====

TestContentTool -INFO- | Running conversion...
TestContentTool -INFO- | Total Number of Files received:
SPF: 0
ITPP: 0
ESPF: 20

TestContentTool -INFO- | Converting file: /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/espfs/pc1r0m_aprobe_debug.espf to SPF Format
TestContentTool -INFO- | Conversion using Local Resources
TestContentTool -INFO- | Executing ---> ----> /p/hdk/cad/spf/latest/bin/spf_perl_pp --tapSpecFile /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/cc_1d.tap.spfspec --stfSpecFile /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/MTI_Collaterales/sprsp_xcc_1d_delay_hack.stf.spfspec --testSe
/aaarcemu/TestContentTool/demo/inputs/espfs/pc1r0m_aprobe_debug.espf --itppFile /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/esp2spf/pc1

*****
Total TAP cycles = 21754
IR cycles = 4672
DR cycles = 17082
IDLE cycles = 0
Total STF Packets = 0

STF Packets Break-down:
- STF Non-NOP Packets for Network Program = 0
- Other Non-NOP Packets = 0
- Total NOP Packets = 0
  -- NOP GID=0 Packets = 0
    --- NOP GID=0 Packets added by user = 0
    --- NOP GID=0 Packets due to interleaving = 0
  -- NOP GID>0 Packets = 0
    --- NOP GID>0 Packets added by user = 0
    --- NOP GID>0 Packets for Network Program = 0
    --- NOP GID>0 Packets due to autoflush in interleaving = 0
    --- NOP GID>0 Packets due to autoflush in non-interleaving = 0
    --- NOP GID>0 Packets due to interleaving = 0
*****
*****

Real time = 0:00:13(13) User time = 0:00:12(12) System time = 0:00:01(1) Memory usage = 6.026
Exiting SPF...

TestContentTool -INFO- | Total Files Processed: 20!!
TestContentTool -INFO- | Content Conversion is Done!
```

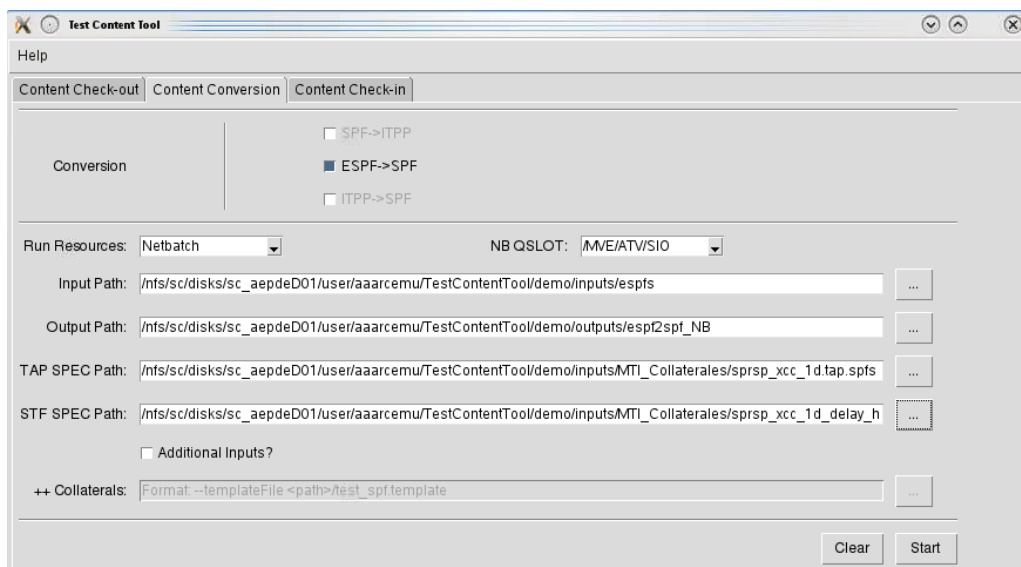
This becomes in a sequential process when use local resources, it will require too much time to be completed (one IO espf2spf conversion takes from 45 min to 110 min).

Results-> New files on ITPP and SPF format

```
/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/espf2spf
|-- cmts.log
|-- pc1r0m_aprobe_debug.itpp
|-- pc1r0m_aprobe_debug.spf
|-- pc1r0m_basic_wr.itpp
|-- pc1r0m_basic_wr.spf
|-- pc1r0m_basic_wr_ctrl.itpp
|-- pc1r0m_basic_wr_ctrl.spf
|-- pc1r0m_burnin_mode.itpp
|-- pc1r0m_burnin_mode.spf
|-- pc1r0m_burnin_result.itpp
|-- pc1r0m_burnin_result.spf
|-- pc1r0m_dcovrefcm_trim.itpp
|-- pc1r0m_dcovrefcm_trim.spf
|-- pc1r0m_debug_read.itpp
|-- pc1r0m_debug_read.spf
|-- pc1r0m_debug_write.itpp
|-- pc1r0m_debug_write.spf
|-- pc1r0m_dram_dump.itpp
|-- pc1r0m_dram_dump.spf
|-- pc1r0m_dram_result_jim.itpp
|-- pc1r0m_dram_result_jim.spf
|-- pc1r0m_dram_result_sqexit.itpp
|-- pc1r0m_dram_result_sqexit.spf
|-- pc1r0m_enable_tap2apb.itpp
|-- pc1r0m_enable_tap2apb.spf
|-- pc1r0m_iso_init.itpp
|-- pc1r0m_iso_init.spf
|-- pc1r0m_iso_init_burnin.itpp
|-- pc1r0m_iso_init_burnin.spf
|-- pc1r0m_jtagmentclk_disable.itpp
|-- pc1r0m_jtagmentclk_disable.spf
|-- pc1r0m_jtagmentclk_enable.itpp
|-- pc1r0m_jtagmentclk_enable.spf
|-- pc1r0m_loooback_result.itpp
```

3.2.4 ESPF to SPF conversion (using NetBatch)

GUI Set-up:



Console Output -> eSPF to SPF/ITPP conversion, jobs assigned on NB queue

```
-----
scc921043> TestContentTool -INFO- | ESPF TO ITPP/SPF Selected
TestContentTool -INFO- | Resource selected:Netbatch
TestContentTool -INFO- | NB SLOT selected:/MVE/ATV/SIO
TestContentTool -INFO- | Extra Collateral Required

=====
TestContentTool -INFO- | Running conversion...
TestContentTool -INFO- | Total Number of Files received:
SPF: 0
ITPP: 0
ESPF: 20

TestContentTool -INFO- | Converting file: /nfs/sc/disks/sc_aepde001/user/aaarcemu/TestContentTool/demo/inputs/espfs/pc1r0m_aprobe_debug.espf to SPF Format
TestContentTool -INFO- | Conversion using Local Resources
TestContentTool -INFO- | Conversion using NB Resources
TestContentTool -INFO- | Executing ----> ----> nbq -P sc_normal -C SLES11SP4&&128G -Q /MVE/ATV/SIO /p/hdk/cad/spf/latest/bin/spf_per1_pp --tapSpecFile /nfs/sc/disks/sc_aepde001/user/aaarcemu/
TestContentTool/demo/inputs/MTI_Collaterales/sprsp_xcc_id.tap.spfspec --stfSpecFile /nfs/sc/disks/sc_aepde001/user/aaarcemu/TestContentTool/demo/inputs/MTI_Collaterales/sprsp_xcc_id_delay_hack.stf.
spfspec --testSeqFile /nfs/sc/disks/sc_aepde001/user/aaarcemu/TestContentTool/demo/inputs/espfs/pc1r0m_aprobe_debug.espf --itppFile /nfs/sc/disks/sc_aepde001/user/aaarcemu/TestContentTool/demo/outp
uts/esp2spf_NB/pc1r0m_aprobe_debug.itpp --keep

Your job has been queued (JobID 15496472116, Class EXPR, Queue Slot /MVE/ATV/SIO)
TestContentTool -INFO- | Converting file: /nfs/sc/disks/sc_aepde001/user/aaarcemu/TestContentTool/demo/inputs/espfs/pc1r0m_basic_wr.espf to SPF Format
TestContentTool -INFO- | Conversion using Local Resources
TestContentTool -INFO- | Conversion using NB Resources
TestContentTool -INFO- | Executing ----> ----> nbq -P sc_normal -C SLES11SP4&&128G -Q /MVE/ATV/SIO /p/hdk/cad/spf/latest/bin/spf_per1_pp --tapSpecFile /nfs/sc/disks/sc_aepde001/user/aaarcemu/
TestContentTool/demo/inputs/MTI_Collaterales/sprsp_xcc_id.tap.spfspec --stfSpecFile /nfs/sc/disks/sc_aepde001/user/aaarcemu/TestContentTool/demo/inputs/MTI_Collaterales/sprsp_xcc_id_delay_hack.stf.
spfspec --testSeqFile /nfs/sc/disks/sc_aepde001/user/aaarcemu/TestContentTool/demo/inputs/espfs/pc1r0m_basic_wr.espf --itppFile /nfs/sc/disks/sc_aepde001/user/aaarcemu/TestContentTool/demo/outp
uts/esp2spf_NB/pc1r0m_basic_wr.itpp --keep

Your job has been queued (JobID 15496479186, Class EXPR, Queue Slot /MVE/ATV/SIO)
TestContentTool -INFO- | Converting file: /nfs/sc/disks/sc_aepde001/user/aaarcemu/TestContentTool/demo/inputs/espfs/pc1r0m_shortchannel_recipe.espf to SPF Format
TestContentTool -INFO- | Conversion using Local Resources
TestContentTool -INFO- | Conversion using NB Resources
TestContentTool -INFO- | Executing ----> ----> nbq -P sc_normal -C SLES11SP4&&128G -Q /MVE/ATV/SIO /p/hdk/cad/spf/latest/bin/spf_per1_pp --tapSpecFile /nfs/sc/disks/sc_aepde001/user/aaarcemu/
TestContentTool/demo/inputs/MTI_Collaterales/sprsp_xcc_id.tap.spfspec --stfSpecFile /nfs/sc/disks/sc_aepde001/user/aaarcemu/TestContentTool/demo/inputs/MTI_Collaterales/sprsp_xcc_id_delay_hack.stf.
spfspec --testSeqFile /nfs/sc/disks/sc_aepde001/user/aaarcemu/TestContentTool/demo/inputs/espfs/pc1r0m_shortchannel_recipe.espf --itppFile /nfs/sc/disks/sc_aepde001/user/aaarcemu/TestContentTool/de
mo/outputs/esp2spf_NB/pc1r0m_shortchannel_recipe.itpp --keep

Your job has been queued (JobID 15496479617, Class EXPR, Queue Slot /MVE/ATV/SIO)
TestContentTool -INFO- | Converting file: /nfs/sc/disks/sc_aepde001/user/aaarcemu/TestContentTool/demo/inputs/espfs/pc1r0m_squelch_debug.espf to SPF Format
TestContentTool -INFO- | Conversion using Local Resources
TestContentTool -INFO- | Conversion using NB Resources
TestContentTool -INFO- | Executing ----> ----> nbq -P sc_normal -C SLES11SP4&&128G -Q /MVE/ATV/SIO /p/hdk/cad/spf/latest/bin/spf_per1_pp --tapSpecFile /nfs/sc/disks/sc_aepde001/user/aaarcemu/
TestContentTool/demo/inputs/MTI_Collaterales/sprsp_xcc_id.tap.spfspec --stfSpecFile /nfs/sc/disks/sc_aepde001/user/aaarcemu/TestContentTool/demo/inputs/MTI_Collaterales/sprsp_xcc_id_delay_hack.stf.
spfspec --testSeqFile /nfs/sc/disks/sc_aepde001/user/aaarcemu/TestContentTool/demo/inputs/espfs/pc1r0m_squelch_debug.espf --itppFile /nfs/sc/disks/sc_aepde001/user/aaarcemu/TestContentTool/demo/out
puts/esp2spf_NB/pc1r0m_squelch_debug.itpp --keep

Your job has been queued (JobID 15496480108, Class EXPR, Queue Slot /MVE/ATV/SIO)
TestContentTool -INFO- | Total Jobs Submitted to NB queue: 20||
```

Jobs running on NB queue:

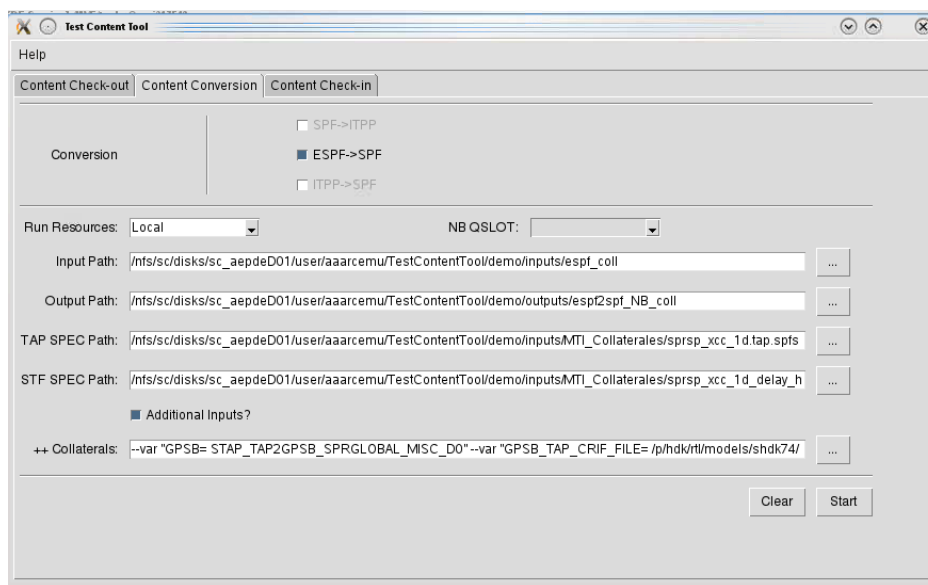
FullID	Status	Wtime	Pool	Queue	Qslot	User ^
scvp.15496472116	Run		scvp	sc_normal	/MVE/ATV/SIO	aaarcemu
scvp.15496472953	Run		scvp	sc_normal	/MVE/ATV/SIO	aaarcemu
scvp.15496473552	Run		scvp	sc_normal	/MVE/ATV/SIO	aaarcemu
scvp.15496474244	Run		scvp	sc_normal	/MVE/ATV/SIO	aaarcemu
scvp.15496475119	Run		scvp	sc_normal	/MVE/ATV/SIO	aaarcemu
scvp.15496475790	Run		scvp	sc_normal	/MVE/ATV/SIO	aaarcemu
scvp.15496476286	Run		scvp	sc_normal	/MVE/ATV/SIO	aaarcemu
scvp.15496476927	Run		scvp	sc_normal	/MVE/ATV/SIO	aaarcemu

Results-> New files on ITPP and SPF format

```
/nfs/sc/disks/sc_aepde001/user/aaarcemu/TestContentTool/demo/outputs/esp2spf_NB
|-- cmts.log
|-- pc1r0m_aprobe_debug.itpp
|-- pc1r0m_aprobe_debug.itpp.spf
|-- pc1r0m_basic_wr.itpp
|-- pc1r0m_basic_wr.itpp.spf
|-- pc1r0m_basic_wr_ctrl.itpp
|-- pc1r0m_basic_wr_ctrl.itpp.spf
|-- pc1r0m_burnin_mode.itpp
|-- pc1r0m_burnin_mode.itpp.spf
|-- pc1r0m_burnin_result.itpp
|-- pc1r0m_burnin_result.itpp.spf
|-- pc1r0m_dcovrefcm_trim.itpp
|-- pc1r0m_dcovrefcm_trim.itpp.spf
|-- pc1r0m_debug_read.itpp
|-- pc1r0m_debug_read.itpp.spf
|-- pc1r0m_debug_write.itpp
|-- pc1r0m_debug_write.itpp.spf
|-- pc1r0m_dram_dump.itpp
|-- pc1r0m_dram_dump.itpp.spf
|-- pc1r0m_dram_result_jim.itpp
|-- pc1r0m_dram_result_jim.itpp.spf
```

3.2.5 ESPF to SPF conversion (using NetBatch + extra collaterals)

GUI Set-up

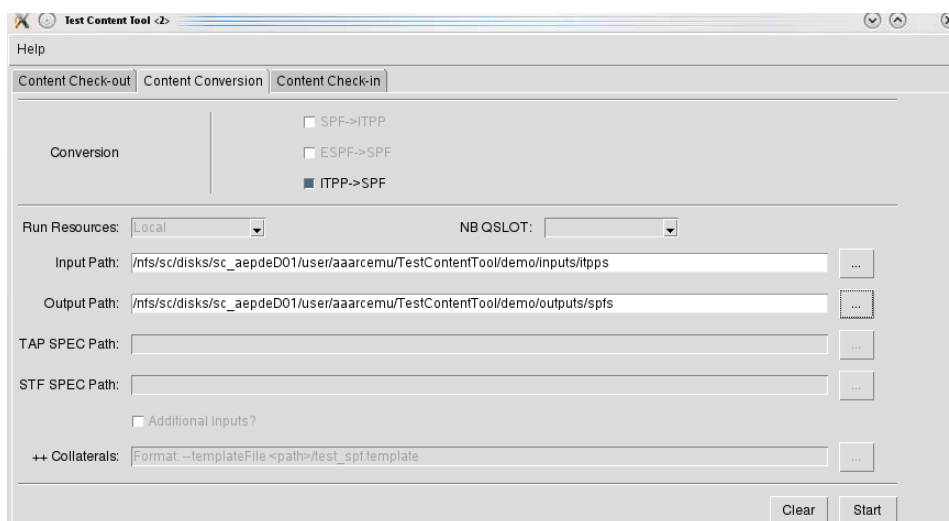


3.2.6 ITPP to SPF

This feature is not part of official \$SPF_ROOT tool (this conversion does not exist). Capability is a hack to have an option to check-in ITPP content on TVPV flow.

Tool will add the *"pass_itpp"* keywork to all file, once it pass through SPF to iTPP conversion, iTPP will get back to his original form.

GUI Set-up



Console Output ->

```
=====  
scc921043> TestContentTool -INFO- | ITPP TO SPF Selected  
  
=====
```

TestContentTool	-INFO-		Running conversion...
TestContentTool	-INFO-		Total Number of Files received:
			SPF: 0
			ITPP: 8
			ESPF: 0

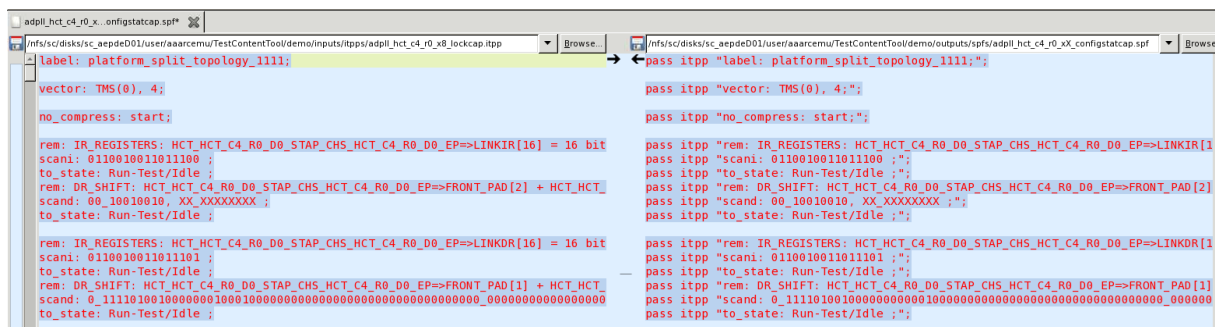
TestContentTool	-INFO-		Converting file: /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/itpps/adpll_hct_c4_r0_x8_lockcap.itpp to SPF Format
TestContentTool	-INFO-		Converting file: /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/itpps/adpll_hct_c4_r0_xX_configstatcap.itpp to SPF Format
TestContentTool	-INFO-		Converting file: /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/itpps/adpll_mcddr_c4_r6_x16_lockcap.itpp to SPF Format
TestContentTool	-INFO-		Converting file: /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/itpps/adpll_mcddr_c4_r6_xX_configstatcap.itpp to SPF Format
TestContentTool	-INFO-		Converting file: /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/itpps/adpll_pi5_c2_r8_x20_lockcap.itpp to SPF Format
TestContentTool	-INFO-		Converting file: /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/itpps/adpll_pi5_c2_r8_xX_configstatcap.itpp to SPF Format
TestContentTool	-INFO-		Converting file: /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/itpps/adpll_pi5_c3_r0_x20_lockcap.itpp to SPF Format
TestContentTool	-INFO-		Converting file: /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/itpps/adpll_pi5_c3_r0_xX_configstatcap.itpp to SPF Format
TestContentTool	-INFO-		Total Files Processed: 8!!

TestContentTool	-INFO-		Content Conversion is Done!
-----------------	--------	--	-----------------------------

Results-> New files on SPF format

```
/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/outputs/spfs/  
|-- adpll_hct_c4_r0_x8_lockcap.spf  
|-- adpll_hct_c4_r0_xX_configstatcap.spf  
|-- adpll_mcddr_c4_r6_x16_lockcap.spf  
|-- adpll_mcddr_c4_r6_xX_configstatcap.spf  
|-- adpll_pi5_c2_r8_x20_lockcap.spf  
|-- adpll_pi5_c2_r8_xX_configstatcap.spf  
|-- adpll_pi5_c3_r0_x20_lockcap.spf  
|-- adpll_pi5_c3_r0_xX_configstatcap.spf
```

Comparing original vs new content:

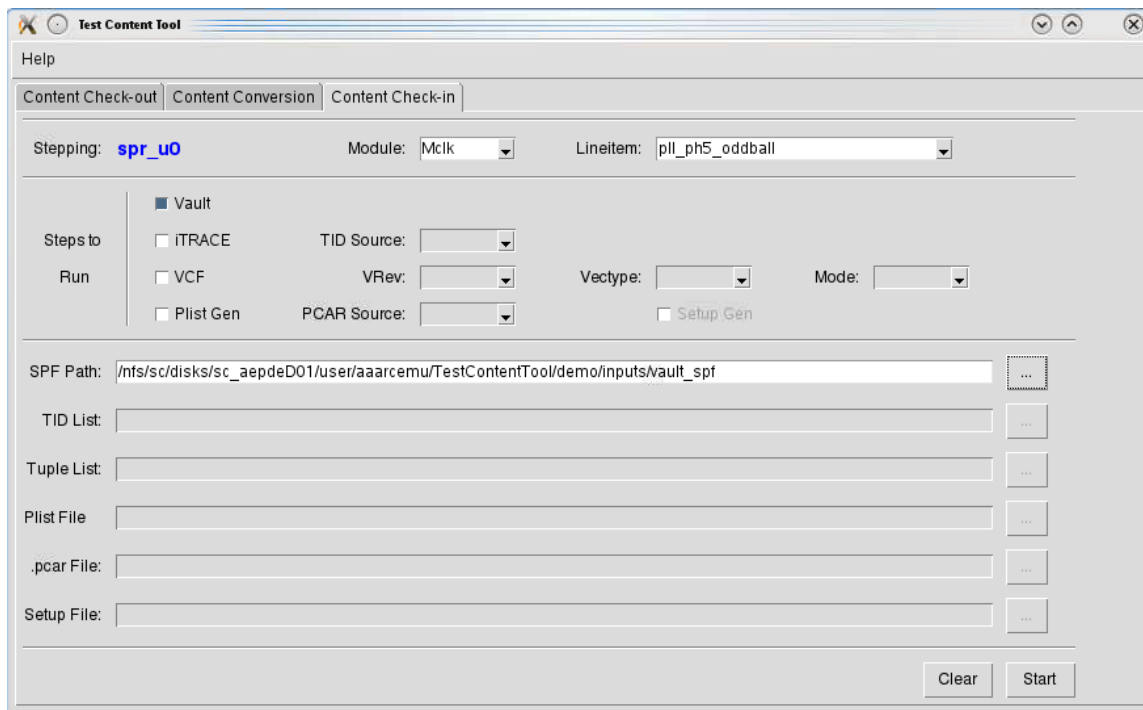


3.3 Content Check-in

Third utility is in charge for Content Check-in or content generation, it is related to the execution of TVPV Flow (vault+iTrace+VCF) and PCAR3 (build production lists). Frame objective is to get the official plist ready to be use on tester but user can select if only needs a list of TIDs or list of tuples as intermediate results. Due to different requirements from teams, tool gives flexibility to execute TVPV steps from various starting points; thus, input file required by the tool will change dynamically according to the user selection. Tool is deployed to require the minimal number of inputs files from user, in order to do that, flow reviews current environment setup and content properties (linus).

3.3.1 Vault deposit and check-in

GUI Set-up



Input -> Folder with spf files to add/update on vault database

```
/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/vault_spf/  
|-- adpll_hct_c4_r0_x8_lockcap_demo.spf  
|-- adpll_hct_c4_r0_xX_configstatcap_demo.spf  
|-- adpll_mcddr_c4_r6_x16_lockcap_demo.spf  
|-- adpll_mcddr_c4_r6_xX_configstatcap_demo.spf  
|-- adpll_pi5_c2_r8_x20_lockcap_demo.spf  
|-- adpll_pi5_c2_r8_xX_configstatcap_demo.spf  
|-- adpll_pi5_c3_r0_x20_lockcap_demo.spf  
|-- adpll_pi5_c3_r0_xX_configstatcap_demo.spf
```


Console Output -> Tool checks if exist a TID associate to current SPF; if no, it is added to database. If TID exists, content is compared to update only if differences exist.

```
scc921043> TestContentTool -INFO- | Module Selected: MclK
TestContentTool -INFO- | LineItem Selected: pll_ph5_oddball
TestContentTool -INFO- | Vault Step Selected
TestContentTool -INFO- | Setting SPF path

=====
*** Running Content Check-in 2021-12-16 09:24:16.098511

TestContentTool -INFO- | Running Vault...
TestContentTool -INFO- | Total SPF found: 8
TestContentTool -INFO- | Searching for test records for: adpll_pi5_c3_r0_xX_cfgstatcap_demo.spf...
TestContentTool -INFO- | Getting TID: -proj: spr_u0 | Testname: adpll_pi5_c3_r0_xX_cfgstatcap_demo
TestContentTool -INFO- | vaultmgrvaultmgr -I- Starting Log File
vaultmgr -I- Log file created: /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/SPR_EE/Content/EEC_49p5/PI5/spr_u0/LOGS/vaultmgr.log.62
vaultmgr -I- Command line used: -proj spr_u0 -q "owner = " clk "path = %spr_u0%adpll_pi5_c3_r0_xX_cfgstatcap_demo/adpll_pi5_c3_r0_xX_cfgstatcap_demo.spf"
vaultmgr -I- Querying for database tables and names: mysql
vaultmgr -I- Querying for database tables and names: mysql
vaultmgr -I- Searching for test records (stepping.all attributes test.all).
vaultmgr -I- Input result reference has either no results or no data for each line.
vaultmgr -I- Query complete; retrieved [0] records.
=====
vaultmgr -I- Processed 0 records.
=====
vaultmgr -I- Log File Path: /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/SPR_EE/Content/EEC_49p5/PI5/spr_u0/LOGS/vaultmgr.log.62
vaultmgr -I- Encountered 0 errors, 0 warnings
vaultmgr -I- Run time was 52 seconds

TestContentTool -INFO- | Previous TID does not exist for adpll_pi5_c3_r0_xX_cfgstatcap_demo.spf

=====
vaultmgr -I- Processed 0 records.
=====
vaultmgr -I- Log File Path: /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/SPR_EE/Content/EEC_49p5/PI5/spr_u0/LOGS/vaultmgr.log.69
vaultmgr -I- Encountered 0 errors, 0 warnings
vaultmgr -I- Run time was 44 seconds

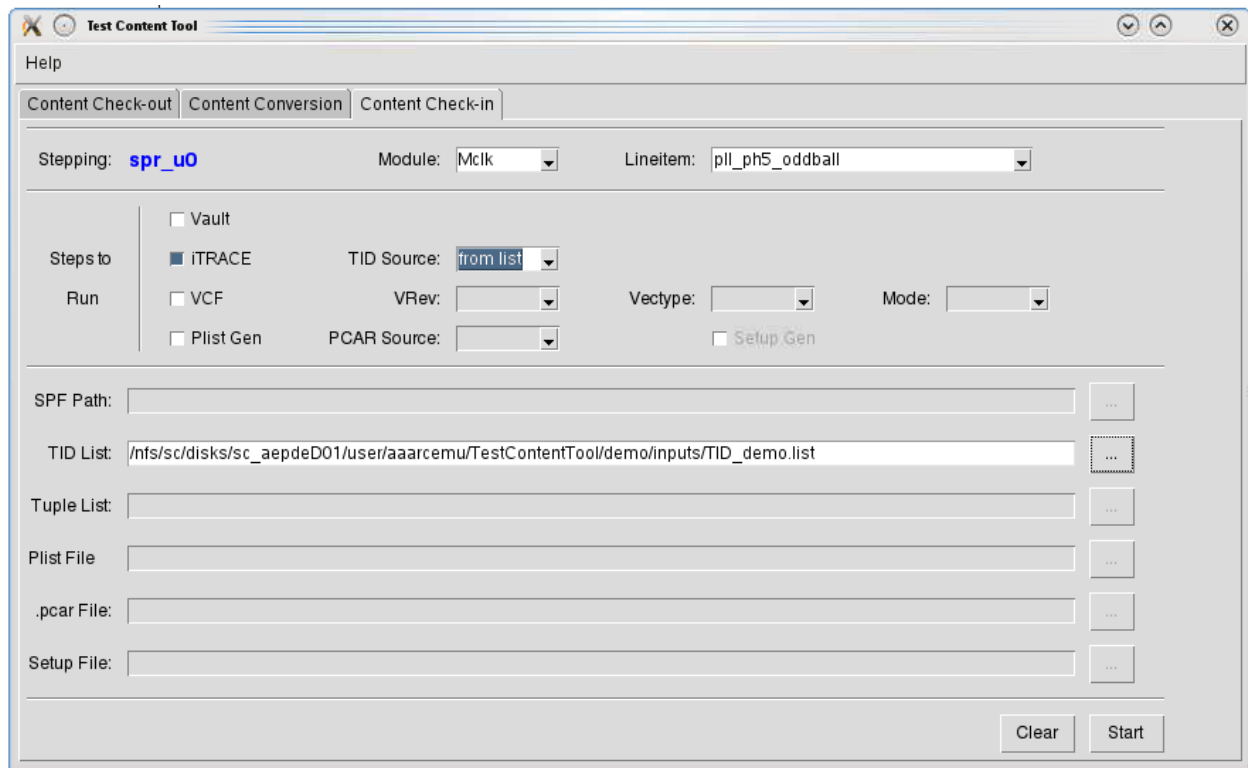
TestContentTool -INFO- | Previous TID does not exist for adpll_hct_c4_r0_x8_lckcap_demo.spf
TestContentTool -INFO- | Writing Deposit Vault ...
TestContentTool -INFO- | Deposit File path:/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/vault_spf/patarea/adpll_hct_c4_r0_x8_lckcap_demo.spf
TestContentTool -INFO- | WriteDepositFile turninFile:turnin.list Total:1
TestContentTool -INFO- | Running Vault Deposit ...
TestContentTool -INFO- | Vault Deposit Complete!!
TestContentTool -INFO- | NEW TID: 5724720
TestContentTool -INFO- | Summary of TID numbers is placed into TID.list file
```

Results-> Tool builds a "TID.list" file with all TID associated to SPFs

```
scc921043> cat TID.list
5724535
5724562
5724591
5724594
5724630
5724639
5724662
5724720
```

3.3.2 iTrace

GUI Set-up



Input -> .list file with all TIDs to run iTRACE

```
scc921043> cat /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/TID_demo.list
5724535
5724562
5724591
5724594
5724630
5724639
5724662
5724720
```

Console Output -> Tool processes TID numbers and run install/lunch commands. Waiting time is added to reflect new tuples on the system. These new values will be used on next step.

```

scc928018:spr_u0> TestContentTool -INFO- | Module Selected: Mcl
TestContentTool -INFO- | LineItem Selected: pll_ph5_oddball
TestContentTool -INFO- | iTrace Step Selected
TestContentTool -INFO- | TID SRC:
TestContentTool -INFO- | from list
TestContentTool -INFO- | Getting TID path

=====
*** Running Content Check-in 2021-12-16 12:57:59.832232

TestContentTool -INFO- | Running Itrace...
TestContentTool -INFO- | Running iTrace based on input list: /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/
TID_demo.list
TestContentTool -INFO- | Processing TID: 5724535
TestContentTool -INFO- | Processing TID: 5724562
TestContentTool -INFO- | Processing TID: 5724591
TestContentTool -INFO- | Processing TID: 5724594
TestContentTool -INFO- | Processing TID: 5724630
TestContentTool -INFO- | Processing TID: 5724639
TestContentTool -INFO- | Processing TID: 5724662
TestContentTool -INFO- | Processing TID: 5724720
TestContentTool -INFO- | Running Itrace: totalcount: 8 passcount: 0 failcount: 0
TestContentTool -INFO- | Running Itrace: totalcount: 8 passcount: 0 failcount: 0
TestContentTool -INFO- | Running Itrace: totalcount: 8 passcount: 0 failcount: 0
TestContentTool -INFO- | Running Itrace: totalcount: 8 passcount: 0 failcount: 0
TestContentTool -INFO- | Running Itrace: totalcount: 8 passcount: 0 failcount: 0
TestContentTool -INFO- | Running Itrace: totalcount: 8 passcount: 0 failcount: 0
TestContentTool -INFO- | Running Itrace: totalcount: 8 passcount: 0 failcount: 0
TestContentTool -INFO- | Running Itrace: totalcount: 8 passcount: 0 failcount: 0
TestContentTool -INFO- | Running Itrace: totalcount: 8 passcount: 0 failcount: 0
TestContentTool -INFO- | Running Itrace: totalcount: 8 passcount: 1 failcount: 0
TestContentTool -INFO- | Running Itrace: totalcount: 8 passcount: 6 failcount: 0
TestContentTool -INFO- | Running Itrace: totalcount: 8 passcount: 8 failcount: 0
TestContentTool -INFO- | Waiting for tuples to be refresh ...
TestContentTool -INFO- | Waiting for tuples to be refresh ...
TestContentTool -INFO- | Waiting for tuples to be refresh ...
TestContentTool -INFO- | TID:5724535

TestContentTool -INFO- | Tuple found: g3646123
TestContentTool -INFO- | Source Path: /p/pde/tvpv/spr/spr_ee/trc/g00/s23/g3646123V5724535D_00_SU051TSs_Gnm220000benC_/g3646123V57
24535D_00_SU051TSs_Gnm220000benC_...x1xxv_a080818bxxx02_XXXXXXXXXXXXXXXXXX_x00_adpll_pi5_c3_r0_xX_cfgstatcap_demo.itpp.gz.bz2 : [HTD_VER__s
prsp_lcc_srvr10nm_21ww47a_eng_2020_ww45a,LI_pll_ph5_oddball,VFREV_0_1]

TestContentTool -INFO- | Tuple:g3646119
TestContentTool -INFO- | TID:5724662

TestContentTool -INFO- | Tuple found: g3646121
TestContentTool -INFO- | Source Path: /p/pde/tvpv/spr/spr_ee/trc/g00/s21/g3646121V5724662D_00_SU051TSs_Gnm220000benC_/g3646121V57
24662D_00_SU051TSs_Gnm220000benC_...x1xxv_a080818bxxx02_XXXXXXXXXXXXXXXXXX_x00_adpll_pi5_c2_r8_xX_cfgstatcap_demo.itpp.gz.bz2 : [HTD_VER__s
prsp_lcc_srvr10nm_21ww47a_eng_2020_ww45a,LI_pll_ph5_oddball,VFREV_0_1]

TestContentTool -INFO- | Tuple:g3646121
TestContentTool -INFO- | TID:5724720

TestContentTool -INFO- | Tuple found: g3646118
TestContentTool -INFO- | Source Path: /p/pde/tvpv/spr/spr_ee/trc/g00/s18/g3646118V5724720D_00_SU051TSs_Gnm220000benC_/g3646118V57
24720D_00_SU051TSs_Gnm220000benC_...x1xxv_a080818bxxx02_XXXXXXXXXXXXXXXXXX_x00_adpll_hct_c4_r0_x8_lckcap_demo.itpp.gz.bz2 : [HTD_VER__sprsp
_lcc_srvr10nm_21ww47a_eng_2020_ww45a,LI_pll_ph5_oddball,VFREV_0_1]

TestContentTool -INFO- | Tuple:g3646118
TestContentTool -INFO- | Printing tuple list file
TestContentTool -INFO- | ITRACE Complete!!! TUPLES.list and TID.list files generated

```

Results-> Tool builds a “TUPLE.list” file with all new tuples numbers associated to TIDs

```

scc928018:spr_u0> cat /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/TUPLE.list
g3646123
g3646120
g3646117
g3646124
g3646122
g3646119
g3646121
g3646118

```

Generation of these tuples can be also confirmed using automatic email received from vep environment:

```

grp_vep2_no_reply      SPR SC tracesaver: tuple: 3646123 - adpll_pi5_c3_r0_xX_cfgstatcap_demo
Pls give it few mins to show up in finder and trace disk:

grp_vep2_no_reply      SPR SC tracesaver: tuple: 3646124 - adpll_pi5_c2_r8_x20_lckcap_demo
Pls give it few mins to show up in finder and trace disk:

grp_vep2_no_reply      SPR SC tracesaver: tuple: 3646122 - adpll_pi5_c3_r0_x20_lckcap_demo
Pls give it few mins to show up in finder and trace disk:

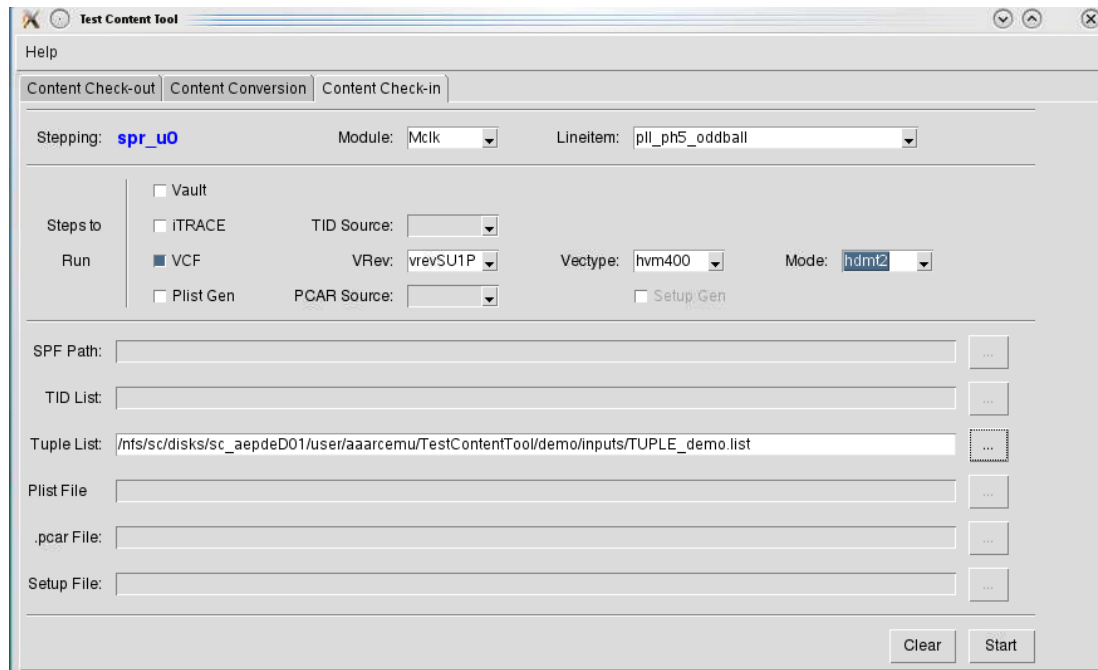
```

Below file into iTrace work directory is useful for tracking purpose, you can use SPF, TID and tuple:

spr_u0/work/iTrace_manager/itrace_2021_12_14_06_56_16/1/sio/sio_ph5_oddball/4/saved.traces

3.3.3 VCF

GUI Set-up



Input -> Need to build, or get from previous iTRACE step, a list with tuples number.

```
scc928018:spr_u0> cat inputs/TUPLE_demo.list
g3646123
g3646120
g3646117
g3646124
g3646122
g3646119
g3646121
g3646118
```

Console Output -> Tool process each tuple number and run vcf step.

```
-----
scc928018:spr_u0> TestContentTool -INFO- | Module Selected: McIk
TestContentTool -INFO- | Lineitem Selected: pll_ph5_oddball
TestContentTool -INFO- | VCF Step Selected
TestContentTool -INFO- | VREV: vrevSU1P
TestContentTool -INFO- | Vectype: hvm400
TestContentTool -INFO- | VMode: hdmt2
=====
*** Running Content Check-in 2021_12_16_13_45_45
TestContentTool -INFO- | Running VCF from list with tuples
TestContentTool -INFO- | Tuple List: /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/TUPLE_demo.list | vrev: vrevSU1P |
TestContentTool -INFO- | vectype: hvm400 | mode: hdmt2
TestContentTool -INFO- | Processing Tuple: g3646123
TestContentTool -INFO- | Processing Tuple: g3646120
TestContentTool -INFO- | Processing Tuple: g3646117
TestContentTool -INFO- | Processing Tuple: g3646124
TestContentTool -INFO- | Processing Tuple: g3646122
TestContentTool -INFO- | Processing Tuple: g3646119
TestContentTool -INFO- | Processing Tuple: g3646121
TestContentTool -INFO- | Processing Tuple: g3646118
TestContentTool -INFO- | VCF is Complete!! Check results on Rundir Folder
TestContentTool -EXIT- 2021_12_16_13_47_36
=====
```

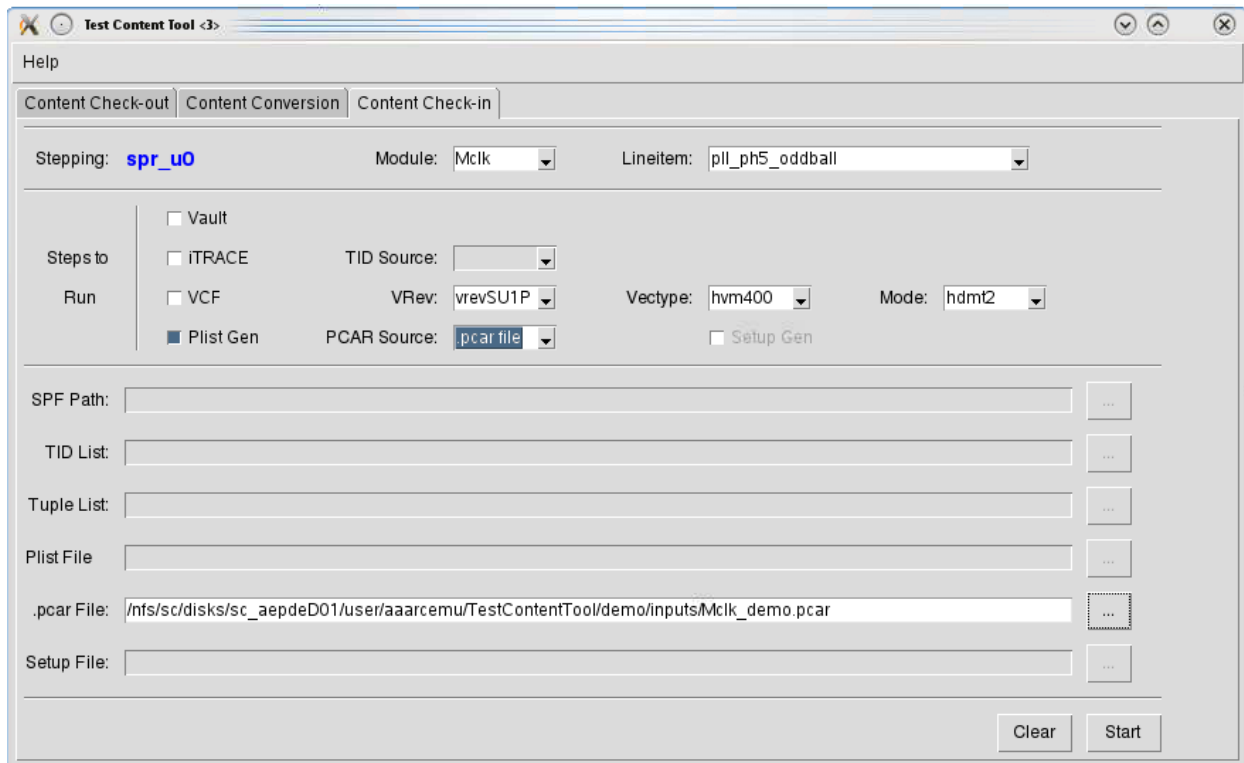
Results-> New pOBJ are created, status can be confirm on vcf log on Rundir folder.

```
scc928018:spr_u0> tail -n30 /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/Rundir_vcf_162833A_sprSC_cencen_re1_hdmt2_vrevSU1P_hdm
Compile PASS g3646118V5724720D_00_SU051TSs_Gnm220000benC_xxx1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adp11_hct_c4_r0_x8_lckcap_demo
Compile PASS g3646119V5724639D_00_SU051TSs_Gnm220000benC_xxx1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adp11_mcdrr_c4_r6_xX_cfgstatcap_demo
Compile PASS g3646120V5724562D_00_SU051TSs_Gnm220000benC_xxx1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adp11_hct_c4_r0_xX_cfgstatcap_demo
Compile PASS g3646121V5724662D_00_SU051TSs_Gnm220000benC_xxx1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adp11_pi5_c2_r8_xX_cfgstatcap_demo
Compile PASS g3646122V5724630D_00_SU051TSs_Gnm220000benC_xxx1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adp11_pi5_c3_r0_x20_lckcap_demo
Compile PASS g3646123V5724535D_00_SU051TSs_Gnm220000benC_xxx1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adp11_pi5_c3_r0_xX_cfgstatcap_demo
Compile PASS g3646124V5724594D_00_SU051TSs_Gnm220000benC_xxx1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adp11_pi5_c2_r8_x20_lckcap_demo
Compile PASS spr_com_A_cf1dz_sub11_Mclk_S_0
DEBUG : patinfo indicator wait complete in 0.0 secs
DEBUG : TIME Elapsed wait_patinfo: 0.019 Secs
Debug plist is created in /p/pde/tvpv/spr/run_logs/vcf/vrevSU1P/aaarcemu/Rundir_vcf_162833A_sprSC_cencen_re1_hdmt2_vrevSU1P_hdmt2_hvm400_TUPLE_
DEBUG : STEPPING TO TRUNK:
DEBUG : None: {'modelstep': 'A0'}
DEBUG : None: {'modelstep': 'B0'}
WARNING : Unable to locate the trunk for input tuple(s). Skipping GenPlist
WARNING : No plist(s) were generated. Pls refer to /p/pde/tvpv/spr/run_logs/vcf/vrevSU1P/aaarcemu/Rundir_vcf_162833A_sprSC_cencen_re1_hdmt2_vre
st/pcar.log

Elapsed Time: 138.756 Secs
Final Status:
DEBUG : 2021-12-16_13:39:20: NBSlot Info: Jobs 8, Waiting 0, Running 0, WaitQueueSlot 0, RunningInSlot 0, CurrentTime 13:39:20, NBStatus_Elap
DEBUG : =====
Flow | Pass | Fail | Running | Waiting | Total
Convert | 8 | 0 | 0 | 0 | 8
Comfile | 8 | 0 | 0 | 0 | 8
Compile | 8 | 0 | 0 | 0 | 8
Total | 8 | 0 | 0 | 0 | 8
=====
DEBUG : Status: Clean
```

3.3.4 Plist Generation based on .pcar file

GUI Set-up



Input -> In case that you already have a .pcar file, you can use it and generate the plist.

```

sccj019349:spr_u0> cat /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/Mclk_demo.pcar
#!/usr/intel/pkg/python/2.7.5/bin/python
from vepplib.pcar3 import PlistFile, Plb, Pats, Tids, QueryTid, pcar3, Amble, Comment, RefPlb, NameFilter
level0 = PlistFile('Mclk.plist')
level1 = level0.add(Plb('pll1_adpll_list', preburst= None, postburst = None))
level2 = level1.add(Pats(Tids([5724591, 5724662, 5724591, 5724662, 5724720, 5724639, 5724630, 5724562, 5724594, 5724535])))
level11 = level0.add(Plb('pll2_adpll_list', preburst= None, postburst = None))
level2 = level1.add(RefPlb('spr_reset_ph5_scan_plist_hvm400'))
level12 = level1.add(Pats(Tids([5724591, 5724662, 5724591])))
level11 = level0.add(Plb('pll3_adpll_list', postburstplist="spr_post_ph5_end_gracefully_pll_plist_hvm400", preburst = None, postburst = None))
level2 = level1.add(RefPlb('spr_reset_ph5_pll_plist_hvm400'))
level12 = level1.add(Pats(Tids([5724591])))
level11 = level0.add(Plb("", preburstplist="spr_reset_ph5_pll_oddball_plist_hvm400", postburstplist="spr_post_ph5_end_gracefully_plist_hvm400",
preburst = None, postburst = None ))
level2 = level1.add(Pats(Tids([5724562, 5724594, 5724535])))

if __name__ == '__main__':
    pcar3.process()
    print("Summary")
    pcar3.report(detail=False)
    print(pcar3.gen_plist_preview())

```

Console Output -> Tool uses .pcar3 to generate the new plist according to input.

```

scc928018:spr_u0> TestContentTool -INFO- | Module Selected: Mclk
TestContentTool -INFO- | LineItem Selected: pll_ph5_oddball
TestContentTool -INFO- | PCAR3 Step Selected
TestContentTool -INFO- | VREV: vrevSU1P
TestContentTool -INFO- | VecType: hvm400
TestContentTool -INFO- | VMode: hdmt2
TestContentTool -INFO- | Plist Generation from .pcar
TestContentTool -INFO- | Getting .pcar path

=====

*** Running Content Check-in 2021_12_16_14_59_51

TestContentTool -INFO- | .pcar file Updated: /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/Mclk.pcar
TestContentTool -INFO- | Generating plist
TestContentTool -INFO- | Using .pcar: /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/Mclk_demo.pcar
TestContentTool -INFO- | VREV: vrevSU1P | VMODE: hdmt2 | VECTYPE: hvm400
TestContentTool -INFO- | Plist Generation is Complete
TestContentTool -INFO- | Success -> Plist Generated
TestContentTool -EXIT- 2021_12_16_15_00_22

```

Result -> New plist generated

```

scc928018:spr_u0> cat Rundir_vcf_162842A_sprSC_cencen_rel_hdmt2_vrevSU1P_hdmt2_hvm400_None//tst/Mclk.plist
Version 5.0;
# Plist ID : ff287fa4299169f3c003aa1b478a6240a8c78214
# pcar_file: /p/pde/tyvpv/spr/run_logs/vcf/vrevSU1P/aaarcemu/Rundir_vcf_162842A_sprSC_cencen_rel_hdmt2_vrevSU1P_hdmt2_hvm400_None/pc
r

GlobalPlist pll1_adpll_list {
    Pat g3646117V5724591D_EA_SU051TSs_Gnm220000benC-xxx1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_mcdrr_c4_r6_x16_lckcap_demo;
    Pat g3646121V5724662D_Fo_SU051TSs_Gnm220000benC-xxx1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_pi5_c2_r8_xX_cfgstatcap_demo;
    Pat g3646117V5724591D_EA_SU051TSs_Gnm220000benC-xxx1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_mcdrr_c4_r6_x16_lckcap_demo;
    Pat g3646121V5724662D_Fo_SU051TSs_Gnm220000benC-xxx1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_pi5_c2_r8_xX_cfgstatcap_demo;
    Pat g3646118V5724720D_EA_SU051TSs_Gnm220000benC-xxx1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_hct_c4_r0_x8_lckcap_demo;
    Pat g3646119V5724639D_Fo_SU051TSs_Gnm220000benC-xxx1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_mcdrr_c4_r6_xX_cfgstatcap_demo;
    Pat g3646122V5724630D_EA_SU051TSs_Gnm220000benC-xxx1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_pi5_c3_r0_x20_lckcap_demo;
    Pat g3646120V5724562D_Fo_SU051TSs_Gnm220000benC-xxx1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_hct_c4_r0_xX_cfgstatcap_demo;
    Pat g3646124V5724594D_EA_SU051TSs_Gnm220000benC-xxx1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_pi5_c2_r8_x20_lckcap_demo;
    Pat g3646123V5724535D_Fo_SU051TSs_Gnm220000benC-xxx1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_pi5_c3_r0_xX_cfgstatcap_demo;
} # End of pll1_adpll_list

GlobalPlist pll2_adpll_list {
    Plist spr_reset_ph5_scan_plist_hvm400;
    Pat g3646117V5724591D_EA_SU051TSs_Gnm220000benC-xxx1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_mcdrr_c4_r6_x16_lckcap_demo;
    Pat g3646121V5724662D_Fo_SU051TSs_Gnm220000benC-xxx1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_pi5_c2_r8_xX_cfgstatcap_demo;
    Pat g3646117V5724591D_EA_SU051TSs_Gnm220000benC-xxx1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_mcdrr_c4_r6_x16_lckcap_demo;
} # End of pll2_adpll_list

GlobalPlist pll3_adpll_list [PostBurstPlist spr_post_ph5_end_gracefully_pll_plist_hvm400] {
    Plist spr_reset_ph5_pll_plist_hvm400;
    Pat g3646117V5724591D_EA_SU051TSs_Gnm220000benC-xxx1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_mcdrr_c4_r6_x16_lckcap_demo;
} # End of pll3_adpll_list

GlobalPlist [PreBurstPlist spr_reset_ph5_pll_oddball_plist_hvm400] [PostBurstPlist spr_post_ph5_end_gracefully_plist_hvm400] {
    Pat g3646120V5724562D_Fo_SU051TSs_Gnm220000benC-xxx1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_hct_c4_r0_xX_cfgstatcap_demo;
    Pat g3646124V5724594D_EA_SU051TSs_Gnm220000benC-xxx1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_pi5_c2_r8_x20_lckcap_demo;
    Pat g3646123V5724535D_Fo_SU051TSs_Gnm220000benC-xxx1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_pi5_c3_r0_xX_cfgstatcap_demo;
} # End of

```

3.3.5 Plist Generation based on setup file

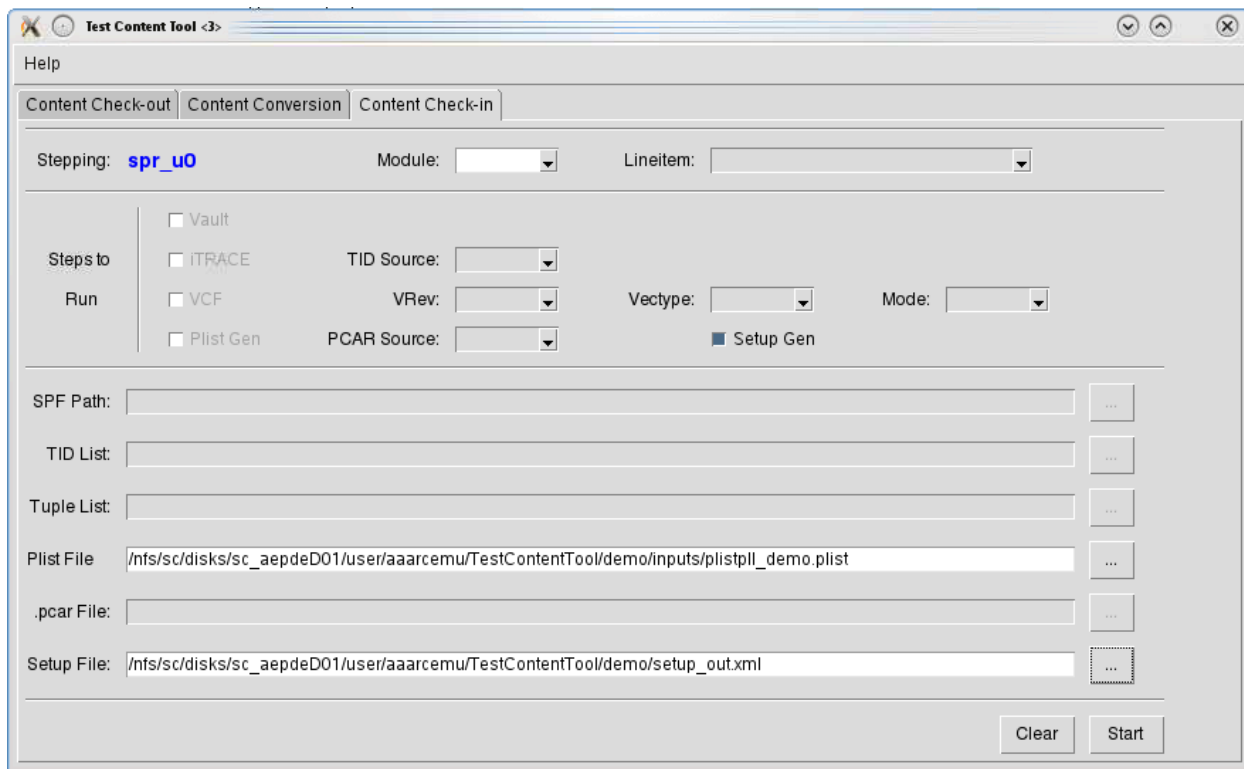
This feature has been added to generate a .pcar file (input for plist generation). Goal is to replicate any existing plist format (same amount of globalPlists, preburstPlist, postBurstPlist, amount of patterns; all same plist structure). There are two steps required:

Step1. Generate a “setup file”, it is a copy of existing plist format (step is only required once)

Step2. Use the setup file to generate the .pcar and plist.

If current SPF names are different comparing with plist reference names, it is needed to update the setup file using the right names; these should match existing names on Vault database.

Step1. GUI Set-up:



The screenshot shows the 'Test Content Tool' window with the 'Content Conversion' tab selected. The 'Stepping' dropdown is set to 'spr_u0'. The 'Module' and 'Lineitem' dropdowns are empty. On the left, under 'Steps to Run', the 'Setup Gen' checkbox is selected. In the center, there are dropdowns for 'TID Source', 'VRRev', 'Vectype', and 'Mode'. Below these are input fields for 'SPF Path', 'TID List', 'Tuple List', 'Plist File' (containing '/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/plistpl_demo.plist'), '.pcar File', and 'Setup File' (containing '/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/setup_out.xml'). 'Clear' and 'Start' buttons are at the bottom right.

Step1. Input -> Existing plist. Only hierarchy and SPF names are taking into consideration to build setup file.

```
scc928018:spr_u0> cat /nfs/sc/disks/sc_aepde001/user/aaarcemu/TestContentTool/demo/inputs/plistpll_demo.plist
/version 5.0;

{
  plist
  GlobalPlist pll1_adpll_list [Flatten] {
    Pat g3031795V5075604D_KZ_SR052TSs_nnm000000amnA_XXXlxxv_a080818baxx02_SR2PTIT0SC09x151_x00_adpll_mccdr_c4_r6_x16_lckcap;
    Pat g3031795V5075604D_KZ_SR052TSs_nnm000000amnA_XXXlxxv_a080818baxx02_SR2PTIT0SC09x151_x00_adpll_pi5_c2_r8_xX_cfgstatcap;
    Pat g3031795V5075604D_KZ_SR052TSs_nnm000000amnA_XXXlxxv_a080818baxx02_SR2PTIT0SC09x151_x00_adpll_mccdr_c4_r6_x16_lckcap;
    Pat g3031795V5075604D_KZ_SR052TSs_nnm000000amnA_XXXlxxv_a080818baxx02_SR2PTIT0SC09x151_x00_adpll_pi5_c2_r8_xX_cfgstatcap;
    Pat g3031795V5075604D_KZ_SR052TSs_nnm000000amnA_XXXlxxv_a080818baxx02_SR2PTIT0SC09x151_x00_adpll_hct_c4_r0_x8_lckcap;
    Pat g3031795V5075604D_KZ_SR052TSs_nnm000000amnA_XXXlxxv_a080818baxx02_SR2PTIT0SC09x151_x00_adpll_mccdr_c4_r6_xX_cfgstatcap;
    Pat g3031795V5075604D_KZ_SR052TSs_nnm000000amnA_XXXlxxv_a080818baxx02_SR2PTIT0SC09x151_x00_adpll_pi5_c3_r0_x20_lckcap;
    Pat g3031795V5075604D_KZ_SR052TSs_nnm000000amnA_XXXlxxv_a080818baxx02_SR2PTIT0SC09x151_x00_adpll_hct_c4_r0_xX_cfgstatcap;
    Pat g3031795V5075604D_KZ_SR052TSs_nnm000000amnA_XXXlxxv_a080818baxx02_SR2PTIT0SC09x151_x00_adpll_pi5_c2_r8_x20_lckcap;
    Pat g3031795V5075604D_KZ_SR052TSs_nnm000000amnA_XXXlxxv_a080818baxx02_SR2PTIT0SC09x151_x00_adpll_pi5_c3_r0_xX_cfgstatcap;
  }
  # End of scn_scan_adpll_io_list

  GlobalPlist pll2_adpll_list [Flatten] {
    PList spr_reset_ph5_scan_plist_hvm400;
    Pat g3031795V5075604D_KZ_SR052TSs_nnm000000amnA_XXXlxxv_a080818baxx02_SR2PTIT0SC09x151_x00_adpll_mccdr_c4_r6_x16_lckcap;
    Pat g3031795V5075604D_KZ_SR052TSs_nnm000000amnA_XXXlxxv_a080818baxx02_SR2PTIT0SC09x151_x00_adpll_pi5_c2_r8_xX_cfgstatcap;
    Pat g3031795V5075604D_KZ_SR052TSs_nnm000000amnA_XXXlxxv_a080818baxx02_SR2PTIT0SC09x151_x00_adpll_mccdr_c4_r6_x16_lckcap;
  }
  # End of scn_scan_reset_with_drvprecap_list

  GlobalPlist pll3_adpll_list [PostBurstPlist spr_post_ph5_end_gracefully_pll_plist_hvm400] [Flatten] {
    PList spr_reset_ph5_pll_plist_hvm400;
    Pat g3031795V5075604D_KZ_SR052TSs_nnm000000amnA_XXXlxxv_a080818baxx02_SR2PTIT0SC09x151_x00_adpll_mccdr_c4_r6_x16_lckcap;
  }
  # End of scn_scan_upipi5_reset_with_endgracefull_list

  GlobalPlist pll4_adpll_list [PreBurstPlist spr_reset_ph5_pll_oddball_plist_hvm400] [PostBurstPlist spr_post_ph5_end_gracefully_pll_plist_hvm400] [Flatten] {
    Pat g3031795V5075604D_KZ_SR052TSs_nnm000000amnA_XXXlxxv_a080818baxx02_SR2PTIT0SC09x151_x00_adpll_hct_c4_r0_xX_cfgstatcap;
    Pat g3031795V5075604D_KZ_SR052TSs_nnm000000amnA_XXXlxxv_a080818baxx02_SR2PTIT0SC09x151_x00_adpll_pi5_c2_r8_xX_cfgstatcap;
    Pat g3031795V5075604D_KZ_SR052TSs_nnm000000amnA_XXXlxxv_a080818baxx02_SR2PTIT0SC09x151_x00_adpll_pi5_c3_r0_xX_cfgstatcap;
  }
  # End of scn_scan_x_cfcfn0cfn3cfn1_x_BEGIN_sSs_tkx_ialcm_atpg_normal_sortxccc_10_x_main_list
}
```

Step1. Console Output -> Parsing and building new setup file.

```
TestContentTool -INFO- |          Getting Setup path
=====
*** Running Content Check-in 2021_12_16_14_29_18

TestContentTool -INFO- |          Building setup file from plist
TestContentTool -INFO- |          Processing GlobalPlist: pll_demo1_adpll_list
-----
TestContentTool -INFO- |          TID from input:5075604 | SPF Name from input: adpll_mccdr_c4_r6_x16_lckcap
TestContentTool -INFO- |          TID from input:5075604 | SPF Name from input: adpll_pi5_c2_r8_xX_cfgstatcap
TestContentTool -INFO- |          TID from input:5075604 | SPF Name from input: adpll_mccdr_c4_r6_x16_lckcap_demo
TestContentTool -INFO- |          TID from input:5075604 | SPF Name from input: adpll_pi5_c2_r8_xX_cfgstatcap_demo
TestContentTool -INFO- |          TID from input:5075604 | SPF Name from input: adpll_hct_c4_r0_x8_lckcap_demo
TestContentTool -INFO- |          TID from input:5075604 | SPF Name from input: adpll_mccdr_c4_r6_xX_cfgstatcap_demo
TestContentTool -INFO- |          TID from input:5075604 | SPF Name from input: adpll_pi5_c3_r0_x20_lckcap_demo
TestContentTool -INFO- |          TID from input:5075604 | SPF Name from input: adpll_hct_c4_r0_xX_cfgstatcap_demo
TestContentTool -INFO- |          TID from input:5075604 | SPF Name from input: adpll_pi5_c2_r8_x20_lckcap_demo
TestContentTool -INFO- |          TID from input:5075604 | SPF Name from input: adpll_pi5_c3_r0_xX_cfgstatcap_demo
TestContentTool -INFO- |          Processing GlobalPlist: pll_demo2_adpll_list
-----
TestContentTool -INFO- |          TID from input:5075604 | SPF Name from input: adpll_mccdr_c4_r6_x16_lckcap
TestContentTool -INFO- |          TID from input:5075604 | SPF Name from input: adpll_pi5_c2_r8_xX_cfgstatcap
TestContentTool -INFO- |          TID from input:5075604 | SPF Name from input: adpll_mccdr_c4_r6_x16_lckcap_demo
TestContentTool -INFO- |          Processing GlobalPlist: pll_demo3_list
-----
TestContentTool -INFO- |          TID from input:5075604 | SPF Name from input: adpll_mccdr_c4_r6_x16_lckcap
TestContentTool -INFO- |          Processing GlobalPlist:
-----
TestContentTool -INFO- |          TID from input:5075604 | SPF Name from input: adpll_hct_c4_r0_xX_cfgstatcap_demo
TestContentTool -INFO- |          TID from input:5075604 | SPF Name from input: adpll_pi5_c2_r8_x20_lckcap_demo
TestContentTool -INFO- |          TID from input:5075604 | SPF Name from input: adpll_pi5_c3_r0_xX_cfgstatcap_demo
TestContentTool -INFO- |          All Plist data migrated to Setup File
TestContentTool -INFO- |          PL: spr_reset_ph5_scan_plist_hvm400
TestContentTool -INFO- |          TID: 5075604
TestContentTool -INFO- |          TID: 5075604
TestContentTool -INFO- |          TID: 5075604
TestContentTool -INFO- |          TID: 5075604
TestContentTool -INFO- |          PL: spr_reset_ph5_pll_plist_hvm400
TestContentTool -INFO- |          TID: 5075604
TestContentTool -INFO- |          Setup File generated: /nfs/sc/disks/sc_aepde001/user/aaarcemu/TestContentTool/demo/setup_out.xml
TestContentTool -INFO- |          Setup Generation is done
TestContentTool -EXIT- | 2021_12_16_14_29_20
```


Step1. Output -> Setup file with same format from existing plist; SPF Names are same than original plist:

```
scc928018:spr_u0> cat /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/setup_in_demo.xml
<setup name = "SPREE">
  <module name = "">
    <global_plist name = "pll1_adpll_list">
      <pat name = "adpll_mcdrr_c4_r6_x16_lckcap_demo" />
      <pat name = "adpll_pi5_c2_r8_xX_cfgstatcap_demo" />
      <pat name = "adpll_mcdrr_c4_r6_x16_lckcap_demo" />
      <pat name = "adpll_pi5_c2_r8_xX_cfgstatcap_demo" />
      <pat name = "adpll_hct_c4_r0_x8_lckcap_demo" />
      <pat name = "adpll_mcdrr_c4_r6_xX_cfgstatcap_demo" />
      <pat name = "adpll_pi5_c3_r0_x20_lckcap_demo" />
      <pat name = "adpll_hct_c4_r0_xX_cfgstatcap_demo" />
      <pat name = "adpll_pi5_c2_r8_x20_lckcap_demo" />
      <pat name = "adpll_pi5_c3_r0_xX_cfgstatcap_demo" />
    </global_plist>
    <global_plist name = "pll2_adpll_list">
      <Plist name = "spr_reset__ph5_scan_plist__hvm400" />
      <pat name = "adpll_mcdrr_c4_r6_x16_lckcap_demo" />
      <pat name = "adpll_pi5_c2_r8_xX_cfgstatcap_demo" />
      <pat name = "adpll_mcdrr_c4_r6_x16_lckcap_demo" />
    </global_plist>
    <global_plist name = "pll3_adpll_list">
      <postburstplist name = "PostBurstPlist spr_post__ph5_end_gracefully_pll_plist__hvm400"></postburstplist>
      <Plist name = "spr_reset__ph5_pll_plist__hvm400" />
      <pat name = "adpll_mcdrr_c4_r6_x16_lckcap_demo" />
    </global_plist>
    <global_plist name = "">
      <preburstplist name = "PreBurstPlist spr_reset__ph5_pll_oddball_plist__hvm400"></preburstplist>
      <postburstplist name = "PostBurstPlist spr_post__ph5_end_gracefully_pll_plist__hvm400"></postburstplist>
      <pat name = "adpll_hct_c4_r0_xX_cfgstatcap_demo" />
      <pat name = "adpll_pi5_c2_r8_x20_lckcap_demo" />
      <pat name = "adpll_pi5_c3_r0_xX_cfgstatcap_demo" />
    </global_plist>
  </module>
</setup>
```

Step2. GUI Set-up:

Test Content Tool <3>

Help

Content Check-out | Content Conversion | Content Check-in

Stepping: **spr_u0** Module: **Mclk** Lineitem: **pll_ph5_oddball**

Steps to Run

- ☐ Vault
- ☐ ITRACE TID Source:
- ☐ VCF VRev: **vrevSU1P** Vectype: **hvm400** Mode: **hdmt2**
- ☒ Plist Gen PCAR Source: **setup file** ☐ Setup Gen

SPF Path: **...**

TID List: **...**

Tuple List: **...**

Plist File: **...**

.pcar File: **...**

Setup File: **/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/setup_in_demo.xml** **...**

Clear **Start**

Step2. Console Output -> Parsing setup file to generate .pcar. Every SPF name is associated to specific TID number on current stepping. Once .pcar is done, pcar3 function will run to generate a new production list.

```
scc928018:spr_u0> TestContentTool -INFO- | Module Selected: MclK
TestContentTool -INFO- | LineItem Selected: p11_ph5_oddball
TestContentTool -INFO- | PCAR3 Step Selected
TestContentTool -INFO- | VREV: vrevSU1P
TestContentTool -INFO- | VecType: hvm400
TestContentTool -INFO- | VMode: hdmt2
TestContentTool -INFO- | Plist Setup Desactivated
TestContentTool -INFO- | Getting Setup path

=====
*** Running Content Check-in 2021_12_16_14_41_19

TestContentTool -INFO- | Generating .pcar from setup File: /nfs/sc/disks/sc_aepde001/user/aaarcemu/TestContentTool/demo/inputs/setup_in_demo
.xml
TestContentTool -INFO- | element: adpll_mccdr_c4_r6_x16_lckcap_demo
TestContentTool -INFO- | element: adpll_pi5_c2_r8_xX_cfgstatcap_demo
TestContentTool -INFO- | element: adpll_mccdr_c4_r6_x16_lckcap_demo
TestContentTool -INFO- | element: adpll_pi5_c2_r8_xX_cfgstatcap_demo
TestContentTool -INFO- | element: adpll_hct_c4_r0_x8_lckcap_demo
TestContentTool -INFO- | element: adpll_mccdr_c4_r6_xX_cfgstatcap_demo
TestContentTool -INFO- | element: adpll_pi5_c3_r0_x20_lckcap_demo
TestContentTool -INFO- | element: adpll_hct_c4_r0_xX_cfgstatcap_demo
TestContentTool -INFO- | element: adpll_pi5_c2_r8_x20_lckcap_demo
TestContentTool -INFO- | element: adpll_pi5_c3_r0_xX_cfgstatcap_demo
TestContentTool -INFO- | element: spr_reset_ph5_scan_plist_hvm400
TestContentTool -INFO- | element: adpll_mccdr_c4_r6_x16_lckcap_demo
TestContentTool -INFO- | element: adpll_pi5_c2_r8_xX_cfgstatcap_demo
TestContentTool -INFO- | element: adpll_mccdr_c4_r6_x16_lckcap_demo
TestContentTool -INFO- | element: PostBurstPList spr_post_ph5_end_gracefully_p11_plist_hvm400
TestContentTool -INFO- | element: spr_reset_ph5_p11_plist_hvm400
TestContentTool -INFO- | element: adpll_mccdr_c4_r6_x16_lckcap_demo
PreBurstPList spr_reset_ph5_p11_oddball_plist_hvm400
TestContentTool -INFO- | element: PreBurstPList spr_reset_ph5_p11_oddball_plist_hvm400
TestContentTool -INFO- | element: PostBurstPList spr_post_ph5_end_gracefully_p11_plist_hvm400
TestContentTool -INFO- | element: adpll_hct_c4_r0_xX_cfgstatcap_demo
TestContentTool -INFO- | element: adpll_pi5_c2_r8_x20_lckcap_demo
TestContentTool -INFO- | element: adpll_pi5_c3_r0_xX_cfgstatcap_demo
TestContentTool -INFO- | (0/8) Getting TID associated to adpll_mccdr_c4_r6_x16_lckcap_demo ...
TestContentTool -INFO- | Getting TID: -proj: spr_u0 | Testname: adpll_mccdr_c4_r6_x16_lckcap_demo
TestContentTool -INFO- | vaultmgrvaultmgr -I- Starting Log File
vaultmgr -I- Log file created: /nfs/sc/disks/sc_aepde001/user/aaarcemu/TestContentTool/demo/src_demo/spr_u0/LOGS/vaultmgr.log.5
vaultmgr -I- Command line used:-proj spr_u0 -q "owner = " clk "path = %spr_u0%adpll_mccdr_c4_r6_x16_lckcap_demo/adpll_mccdr_c4_r6_x16_lckcap_demo.
spf" -- -pr test_id --
vaultmgr -I- Querying for database tables and names: mysql
vaultmgr -I- Querying for database tables and names: mysql
vaultmgr -I- Searching for test records (stepping.all attributes test.all).
vaultmgr -I- Query complete; retrieved [1] records.
=====
test_id : 5724591
|-----|
=====
vaultmgr -I- Processed 1 records.
=====
vaultmgr -I- Log File Path: /nfs/sc/disks/sc_aepde001/user/aaarcemu/TestContentTool/demo/src_demo/spr_u0/LOGS/vaultmgr.log.5

=====
vaultmgr -I- Processed 1 records.
=====
vaultmgr -I- Log File Path: /nfs/sc/disks/sc_aepde001/user/aaarcemu/TestContentTool/demo/src_demo/spr_u0/LOGS/vaultmgr.log.11
vaultmgr -I- Encountered 0 errors, 0 warnings
vaultmgr -I- Run time was 4 seconds

TestContentTool -INFO- | (9/8) Getting TID associated to adpll_pi5_c3_r0_xX_cfgstatcap_demo ...
TestContentTool -INFO- | Getting TID: -proj: spr_u0 | Testname: adpll_pi5_c3_r0_xX_cfgstatcap_demo
TestContentTool -INFO- | vaultmgrvaultmgr -I- Starting Log File
vaultmgr -I- Log file created: /nfs/sc/disks/sc_aepde001/user/aaarcemu/TestContentTool/demo/src_demo/spr_u0/LOGS/vaultmgr.log.12
vaultmgr -I- Command line used:-proj spr_u0 -q "owner = " clk "path = %spr_u0%adpll_pi5_c3_r0_xX_cfgstatcap_demo/adpll_pi5_c3_r0_xX_cfgstatcap_dem
o.spf" -- -pr test_id --
vaultmgr -I- Querying for database tables and names: mysql
vaultmgr -I- Querying for database tables and names: mysql
vaultmgr -I- Searching for test records (stepping.all attributes test.all).
vaultmgr -I- Query complete; retrieved [1] records.
=====
test_id : 5724535
|-----|
=====
vaultmgr -I- Processed 1 records.
=====
vaultmgr -I- Log File Path: /nfs/sc/disks/sc_aepde001/user/aaarcemu/TestContentTool/demo/src_demo/spr_u0/LOGS/vaultmgr.log.12
vaultmgr -I- Encountered 0 errors, 0 warnings
vaultmgr -I- Run time was 4 seconds

TestContentTool -INFO- | (10/8) Getting TID associated to adpll_mccdr_c4_r6_x16_lckcap_demo ...
TestContentTool -INFO- | (11/8) Getting TID associated to adpll_pi5_c2_r8_xX_cfgstatcap_demo ...
TestContentTool -INFO- | (12/8) Getting TID associated to adpll_mccdr_c4_r6_x16_lckcap_demo ...
TestContentTool -INFO- | (13/8) Getting TID associated to adpll_mccdr_c4_r6_x16_lckcap_demo ...
TestContentTool -INFO- | (14/8) Getting TID associated to adpll_hct_c4_r0_xX_cfgstatcap_demo ...
TestContentTool -INFO- | (15/8) Getting TID associated to adpll_pi5_c2_r8_x20_lckcap_demo ...
TestContentTool -INFO- | (16/8) Getting TID associated to adpll_pi5_c3_r0_xX_cfgstatcap_demo ...
TestContentTool -INFO- | .pcar file Updated: /nfs/sc/disks/sc_aepde001/user/aaarcemu/TestContentTool/demo/MclK.pcar
TestContentTool -INFO- | Generating plist
TestContentTool -INFO- | VREV: vrevSU1P | VMODE: hdmt2 | VECTYPE: hvm400
TestContentTool -INFO- | Plist Gen done
TestContentTool -INFO- | Successfully Generated Plists
TestContentTool -EXIT- 2021_12_16_14_46_51

=====
```

Result -> New plist generated based on .pcar file; .pcar file generated based on setup file. Plist generated and .pcar file can be reused for next updates on plist generation, initial setup gen step is not required anymore.

```
scc928018:~$ cat /usr/bin/RunDir_vcf_162839A_sprSC_cencen_re1_hdmt2_vrevSU1P_hdmt2_hvm400_None/tst/Mc1k.plist
Version 5.0;
# Plist ID : ff287fa4299169f3c003aa1b478a6240a8c78214
# pcar_file: /p/pde/tvpv/spr/run_logs/vcf/vrevSU1P/aaarcemu/RunDir_vcf_162839A_sprSC_cencen_re1_hdmt2_vrevSU1P_hdmt2_hvm400_None/pcar3/Mc1k.pcar

GlobalPlist pll1_adpll_list {
  Pat g3646117V5724591D_EA_SU051TSs_Gnm220000benC_XXX1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_mcdrr_c4_r6_x16_lckcap_demo;
  Pat g3646121V5724662D_Fo_SU051TSs_Gnm220000benC_XXX1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_pi5_c2_r8_xX_cfgstatcap_demo;
  Pat g3646117V5724591D_EA_SU051TSs_Gnm220000benC_XXX1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_mcdrr_c4_r6_x16_lckcap_demo;
  Pat g3646121V5724662D_Fo_SU051TSs_Gnm220000benC_XXX1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_pi5_c2_r8_xX_cfgstatcap_demo;
  Pat g3646118V5724720D_EA_SU051TSs_Gnm220000benC_XXX1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_hct_c4_r0_x8_lckcap_demo;
  Pat g3646119V5724639D_Fo_SU051TSs_Gnm220000benC_XXX1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_mcdrr_c4_r6_xX_cfgstatcap_demo;
  Pat g3646122V5724630D_EA_SU051TSs_Gnm220000benC_XXX1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_pi5_c3_r0_x20_lckcap_demo;
  Pat g3646120V5724562D_Fo_SU051TSs_Gnm220000benC_XXX1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_hct_c4_r0_xX_cfgstatcap_demo;
  Pat g3646124V5724594D_EA_SU051TSs_Gnm220000benC_XXX1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_pi5_c2_r8_x20_lckcap_demo;
  Pat g3646123V5724535D_Fo_SU051TSs_Gnm220000benC_XXX1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_pi5_c3_r0_xX_cfgstatcap_demo;
} # End of pll1_adpll_list

GlobalPlist pll2_adpll_list {
  Plist spr_reset_ph5_ean.plist_hvm400;
  Pat g3646117V5724591D_EA_SU051TSs_Gnm220000benC_XXX1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_mcdrr_c4_r6_x16_lckcap_demo;
  Pat g3646121V5724662D_Fo_SU051TSs_Gnm220000benC_XXX1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_pi5_c2_r8_xX_cfgstatcap_demo;
  Pat g3646117V5724591D_EA_SU051TSs_Gnm220000benC_XXX1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_mcdrr_c4_r6_x16_lckcap_demo;
} # End of pll2_adpll_list

GlobalPlist pll3_adpll_list [PostBurstPlist spr_post_ph5_end_gracefully_pll.plist_hvm400] {
  Plist spr_reset_ph5_pll.plist_hvm400;
  Pat g3646117V5724591D_EA_SU051TSs_Gnm220000benC_XXX1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_mcdrr_c4_r6_x16_lckcap_demo;
} # End of pll3_adpll_list

GlobalPlist [PreBurstPlist spr_reset_ph5_pll_oddball.plist_hvm400] [PostBurstPlist spr_post_ph5_end_gracefully_pll.plist_hvm400] {
  Pat g3646120V5724562D_Fo_SU051TSs_Gnm220000benC_XXX1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_hct_c4_r0_xX_cfgstatcap_demo;
  Pat g3646124V5724594D_EA_SU051TSs_Gnm220000benC_XXX1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_pi5_c2_r8_x20_lckcap_demo;
  Pat g3646123V5724535D_Fo_SU051TSs_Gnm220000benC_XXX1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adpll_pi5_c3_r0_xX_cfgstatcap_demo;
} # End of
```

3.3.6 Plist Generation based on reference plist

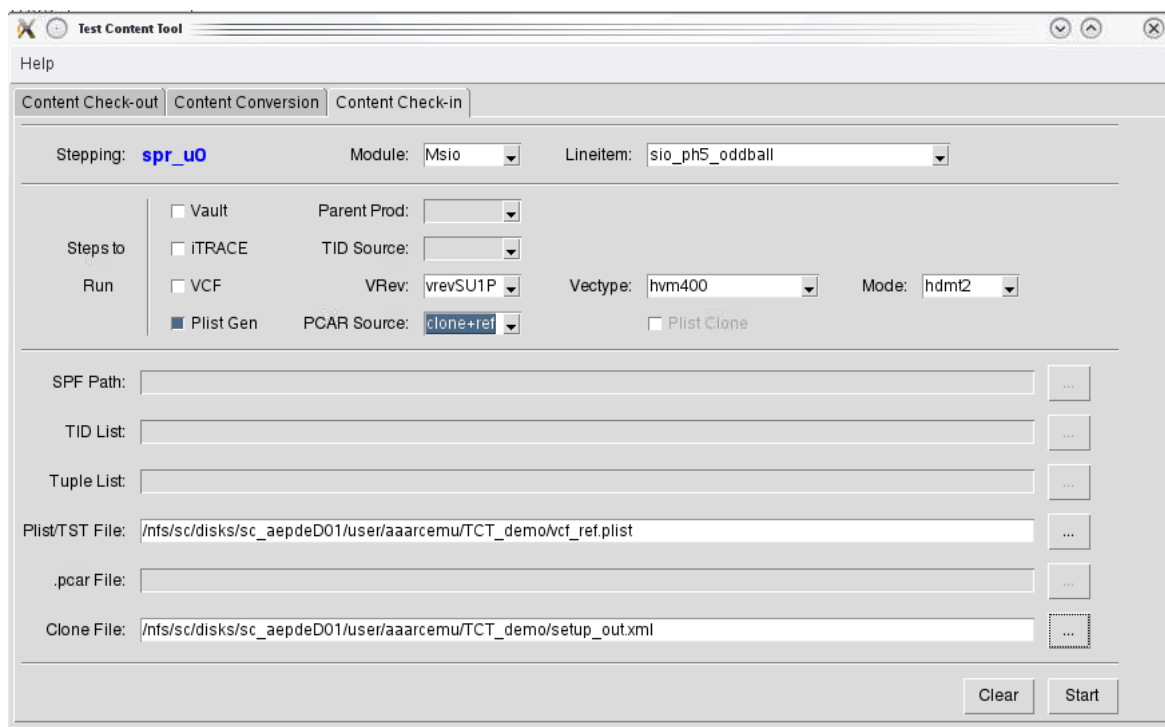
This feature has been added to generate a plist file based on a reference plist. Usually, the reference plist to be used is the output from VCF step (file saved into tst/ folder on Rundir_vcf_*/).

This feature is an extension of previous section. Step number 1 is the same, we need to generate our setup file to get a copy of structure that we want. Step number 2 will have a small change, we will add the reference plist to copy our pattern information from there and not from vault database. Benefit of this is that plist generation required only some minutes.

Step1. Generate a “setup file”, it is a copy of existing plist format (step is only required once). Refer to Section 3.3.5.

Step2. Use the setup file to generate the .pcar and plist.

Step2. GUI Set-up



The screenshot shows the 'Test Content Tool' window with the 'Content Conversion' tab selected. The 'Stepping' dropdown is set to 'spr_u0'. The 'Module' dropdown is 'Msio' and the 'Lineitem' dropdown is 'sio_ph5_oddball'. Under 'Steps to Run', 'Plist Gen' is selected. Other settings include 'Parent Prod' (empty), 'TID Source' (empty), 'VRev' (vrevSU1P), 'Vectype' (hvm400), 'Mode' (hdm12), and 'PCAR Source' (clone+ref). There are checkboxes for 'Vault', 'ITRACE', 'VCF', and 'Plist Clone'. Below these are input fields for 'SPF Path', 'TID List', 'Tuple List', 'Plist/TST File' (containing '/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TCT_demo/vcf_ref.plist'), '.pcar File', and 'Clone File' (containing '/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TCT_demo/setup_out.xml'). 'Clear' and 'Start' buttons are at the bottom right.

Step2. Console Output -> Parsing setup file to generate .pcar. Every SPF name is associated to specific pObj on reference plist. Once .pcar is done, pcar3 function will run to generate a new production list.

Parsing setup file:

```

sc925078:spn_u0> TestContentTool -INFO- | Parent Prod Selected1:
TestContentTool -INFO- | Module Selected: Msio
TestContentTool -INFO- | LineItem Selected: sio_ph5_oddball
TestContentTool -INFO- | PCAR3 Step Selected
TestContentTool -INFO- | VREV: vrevSU1P
TestContentTool -INFO- | VecType: hvm400
TestContentTool -INFO- | VMode: hdmt2
TestContentTool -INFO- | PCAR will be generated based on clone structure and reference input
TestContentTool -INFO- | Getting Setup path

=====
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***
TestContentTool -INFO- | Generating .pcar. Setup-up: /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TCT_demo/setup_out.xml Reference TST:/nfs/sc/disk
s/sc_aepdeD01/user/aaarcemu/TCT_demo/vcf_ref.plist
PreBurstPList spr_reset_ph5_pll_oddball_plist_hvm400
TestContentTool -INFO- | element: PreBurstPList spr_reset_ph5_pll_oddball_plist_hvm400
TestContentTool -INFO- | element: PostBurstPList spr_post_ph5_end_gracefully_plist_hvm400
TestContentTool -INFO- | element: eelcc_adpll_filter_cX_rX_x12_lockcap
TestContentTool -INFO- | element: eelcc_adpll_filter_cX_rX_xX_cfgstatcap
PreBurstPList spr_reset_ph5_pll_oddball_plist_hvm400
TestContentTool -INFO- | element: PreBurstPList spr_reset_ph5_pll_oddball_plist_hvm400
TestContentTool -INFO- | element: PostBurstPList spr_post_ph5_end_gracefully_plist_hvm400
TestContentTool -INFO- | element: eelcc_adpll_pcu_c0_r0_x8_lockcap
TestContentTool -INFO- | element: eelcc_adpll_pcu_c0_r0_xX_cfgstatcap
TestContentTool -INFO- | element: eelcc_adpll_pcu_c0_r0_x9_lockcap
TestContentTool -INFO- | element: eelcc_adpll_pcu_c0_r0_xX_cfgstatcap
TestContentTool -INFO- | element: eelcc_adpll_pcu_c0_r0_x10_lockcap
TestContentTool -INFO- | element: eelcc_adpll_pcu_c0_r0_xX_cfgstatcap
TestContentTool -INFO- | element: eelcc_adpll_pcu_c0_r0_x11_lockcap
TestContentTool -INFO- | element: eelcc_adpll_pcu_c0_r0_xX_cfgstatcap
PreBurstPList spr_reset_ph5_pll_oddball_plist_hvm400

```

Parsing reference file:

```

TestContentTool -INFO- | element: eelcc_adpll_mesh_cX_rX_x6_lockcap
TestContentTool -INFO- | Opening Reference TST plist:
TestContentTool -INFO- | Parsing Reference Plist: Cnt:1 | Tuple:5614426 | TID:7360578 | SPF name:ee1cc_lcp11_iso_init_upipc0r8
TestContentTool -INFO- | Parsing Reference Plist: Cnt:2 | Tuple:5614707 | TID:7365384 | SPF name:ee1cc_adpll_mcdrr_c0_r3_xX_cfgstatcap
TestContentTool -INFO- | Parsing Reference Plist: Cnt:3 | Tuple:5614440 | TID:7360741 | SPF name:ee1cc_lcp11_bringup_pi5pc4r8gen1
TestContentTool -INFO- | Parsing Reference Plist: Cnt:4 | Tuple:5614775 | TID:7368594 | SPF name:ee1cc_adpll_pcu_c0_r0_xX_cfgstatcap
TestContentTool -INFO- | Parsing Reference Plist: Cnt:5 | Tuple:5614574 | TID:7361202 | SPF name:ee1cc_adpll_mcdrr_c0_r3_x21_lockcap
TestContentTool -INFO- | Parsing Reference Plist: Cnt:6 | Tuple:5614805 | TID:7368627 | SPF name:ee1cc_adpll_mesh_cX_rX_x9_lockcap
TestContentTool -INFO- | Parsing Reference Plist: Cnt:7 | Tuple:5614493 | TID:7360909 | SPF name:ee1cc_lcp11_bringup_pi5pc1r8gen1
TestContentTool -INFO- | Parsing Reference Plist: Cnt:8 | Tuple:5614639 | TID:7361963 | SPF name:ee1cc_adpll_mcdrr_c4_r6_x16_lockcap
TestContentTool -INFO- | Parsing Reference Plist: Cnt:9 | Tuple:5614473 | TID:7360872 | SPF name:ee1cc_adpll_pi5_c2_r0_x20_lockcap
TestContentTool -INFO- | Parsing Reference Plist: Cnt:10 | Tuple:5614593 | TID:7361236 | SPF name:ee1cc_adpll_mesh_cX_rX_x14_lockcap
TestContentTool -INFO- | Parsing Reference Plist: Cnt:11 | Tuple:5614439 | TID:7360769 | SPF name:ee1cc_lcp11_iso_init_pi5pc4r8
TestContentTool -INFO- | Parsing Reference Plist: Cnt:12 | Tuple:5614814 | TID:7368639 | SPF name:ee1cc_adpll_pi5_c3_r8_x20_cm1buf
TestContentTool -INFO- | Parsing Reference Plist: Cnt:13 | Tuple:5614462 | TID:7360831 | SPF name:ee1cc_lcp11_iso_init_pi5pc4r0
TestContentTool -INFO- | Parsing Reference Plist: Cnt:14 | Tuple:5614715 | TID:7365984 | SPF name:ee1cc_adpll_mesh_cX_rX_x14_lockcap
TestContentTool -INFO- | Parsing Reference Plist: Cnt:15 | Tuple:5614827 | TID:7365667 | SPF name:ee1cc_adpll_upi_c0_r8_xX_cfgstatcap
TestContentTool -INFO- | Parsing Reference Plist: Cnt:16 | Tuple:5614675 | TID:7363497 | SPF name:ee1cc_adpll_mcdrr_c0_r6_xX_cfgstatcap
TestContentTool -INFO- | Parsing Reference Plist: Cnt:17 | Tuple:5614792 | TID:7368615 | SPF name:ee1cc_adpll_mesh_cX_rX_x6_lockcap
TestContentTool -INFO- | Parsing Reference Plist: Cnt:18 | Tuple:5614718 | TID:7365686 | SPF name:ee1cc_adpll_mesh_cX_rX_x12_lockcap
TestContentTool -INFO- | Parsing Reference Plist: Cnt:19 | Tuple:5614627 | TID:7361743 | SPF name:ee1cc_adpll_mcdrr_c4_r6_x19_lockcap
TestContentTool -INFO- | Parsing Reference Plist: Cnt:20 | Tuple:5614464 | TID:7360879 | SPF name:ee1cc_lcp11_iso_init_pi5pc2r8
TestContentTool -INFO- | Parsing Reference Plist: Cnt:21 | Tuple:5614803 | TID:7368631 | SPF name:ee1cc_adpll_mesh_cX_rX_xX_cfgstatcap
TestContentTool -INFO- | Parsing Reference Plist: Cnt:22 | Tuple:5614394 | TID:7360482 | SPF name:ee1cc_adpll_upi_c0_r8_x5_lockcap
TestContentTool -INFO- | Parsing Reference Plist: Cnt:23 | Tuple:5614637 | TID:7362063 | SPF name:ee1cc_adpll_mcdrr_c4_r3_x24_lockcap
TestContentTool -INFO- | Parsing Reference Plist: Cnt:24 | Tuple:5614833 | TID:7368659 | SPF name:ee1cc_adpll_upi_c0_r8_x20_lockcap
TestContentTool -INFO- | Parsing Reference Plist: Cnt:25 | Tuple:5614746 | TID:7367094 | SPF name:ee1cc_adpll_mesh_cX_rX_x27_lockcap
TestContentTool -INFO- | Parsing Reference Plist: Cnt:26 | Tuple:5614766 | TID:7368285 | SPF name:ee1cc_adpll_mesh_cX_rX_x18_lockcap
TestContentTool -INFO- | Parsing Reference Plist: Cnt:27 | Tuple:5614590 | TID:7361239 | SPF name:ee1cc_adpll_pi5_c1_r8_xX_cfgstatcap
TestContentTool -INFO- | Parsing Reference Plist: Cnt:28 | Tuple:5614747 | TID:7367001 | SPF name:ee1cc_adpll_mesh_cX_rX_x28_lockcap
TestContentTool -INFO- | Parsing Reference Plist: Cnt:29 | Tuple:5614742 | TID:7366778 | SPF name:ee1cc_adpll_mesh_cX_rX_x29_lockcap
TestContentTool -INFO- | Parsing Reference Plist: Cnt:30 | Tuple:5614418 | TID:7360605 | SPF name:ee1cc_adpll_pi5_c3_r0_x20_lockcap
TestContentTool -INFO- | Parsing Reference Plist: Cnt:31 | Tuple:5614734 | TID:7366441 | SPF name:ee1cc_adpll_mesh_cX_rX_x23_lockcap
TestContentTool -INFO- | Parsing Reference Plist: Cnt:32 | Tuple:5614529 | TID:7361153 | SPF name:ee1cc_adpll_mcdrr_c0_r3_x19_lockcap

```

Result -> New plist generated based on .pcar file; .pcar file generated based on setup file. Plist generated and .pcar file can be reused for next updates on plist generation.

```

TestContentTool -INFO- | .pcar file Updated: /nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TCT_demo/Msio.pcar
TestContentTool -INFO- | Generating plist
TestContentTool -INFO- | VREV: vrevSU1P | VMODE: hdmt2 | VECTYPE: hvm400
TestContentTool -INFO- | Plist Generation is Complete
TestContentTool -INFO- | Success -> Plist Generated
TestContentTool -EXIT- | 2022_09_15_09_13_38

```

3.3.7 All TVPV Flow Run

Main tool functionality is to run all TVPV flow on one-click, user can select all steps together if that is desired. Results and console outputs will be the same than previous sections. Plist Gen option can be also selected if you have a .pcar ready to use (matching TIDs).

GUI Set-up

The screenshot shows the 'Test Content Tool' window with the 'Content Conversion' tab selected. The 'Stepping' is set to 'spr_u0', 'Module' is 'Mclk', and 'Lineitem' is 'pll_ph5_oddball'. Under 'Steps to Run', 'Vault', 'ITRACE', 'VCF', and 'Plist Gen' are checked. 'TID Source' is empty, 'VRev' is 'vrevSU1P', 'Vectype' is 'hvm400', and 'Mode' is 'hdmt2'. 'PCAR Source' is empty and 'Setup Gen' is unchecked. Below these are input fields for 'SPF Path' (set to '/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/all_spf'), 'TID List', 'Tuple List', 'Plist File', '.pcar File', and 'Setup File', each with a browse button. 'Clear' and 'Start' buttons are at the bottom right.

Input -> Folder with SPF name to check-in

```
/nfs/sc/disks/sc_aepdeD01/user/aaarcemu/TestContentTool/demo/inputs/all_spf/  
|-- adpll_hct_c4_r0_x8_lckcap_demoall.spf  
|-- adpll_hct_c4_r0_xX_cfgstatcap_demoall.spf  
|-- adpll_mcddr_c4_r6_x16_lckcap_demoall.spf  
|-- adpll_mcddr_c4_r6_xX_cfgstatcap_demoall.spf  
|-- adpll_pi5_c2_r8_x20_lckcap_demoall.spf  
|-- adpll_pi5_c2_r8_xX_cfgstatcap_demoall.spf  
|-- adpll_pi5_c3_r0_x20_lckcap_demoall.spf  
|-- adpll_pi5_c3_r0_xX_cfgstatcap_demoall.spf
```

Console Output -> Vault, Itrace and VCF messages.

```
scc928018:spr_u0> /usr/intel/bin/python3./4 /nfs/sc/disks/sc_aepde001/user/aaarcemu/automationIoShare/test_Content_tool/test_Content_tool.py &
[4] 71200
scc928018:spr_u0> TestContentTool -INFO- | Module Selected: Mc1k
TestContentTool -INFO- | LineItem Selected: pll_ph5_oddball
TestContentTool -INFO- | Vault Step Selected
TestContentTool -INFO- | iTrace Step Selected
TestContentTool -INFO- | VCF Step Selected
TestContentTool -INFO- | VREV: vrevSU1P
TestContentTool -INFO- | VecType: hvm400
TestContentTool -INFO- | VMode: hdm2
TestContentTool -INFO- | Setting SPF path

=====

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TestContentTool -INFO- | Running Vault...
TestContentTool -INFO- | Total SPF found: 8
TestContentTool -INFO- | Searching for test records for: adpll_mccddr_c4_r6_x16_lckcap_demoall.spf...
TestContentTool -INFO- | Getting TID: -proj: spr_u0 | Testname: adpll_mccddr_c4_r6_x16_lckcap_demoall
TestContentTool -INFO- | vaultmgrvaultmgr -I- Starting Log File
vaultmgr -I- Log file created: /nfs/sc/disks/sc_aepde001/user/aaarcemu/TestContentTool/demo/src_demo/spr_u0/LOGS/vaultmgr.log.13
vaultmgr -I- Command line used: -proj spr_u0 -q "owner = " clk "path = %spr_u0%adpll_mccddr_c4_r6_x16_lckcap_demoall/adpll_mccddr_c4_r6_x16_lckcap_d
moall.spf" -- -pr test_id --
vaultmgr -I- Querying for database tables and names: mysql
vaultmgr -I- Querying for database tables and names: mysql
vaultmgr -I- Searching for test records (stepping.all attributes test.all).
vaultmgr -I- Input result reference has either no results or no data for each line.
vaultmgr -I- Query complete; retrieved [0] records.
=====
vaultmgr -I- Processed 0 records.
=====

=====
vaultmgr -I- Log File Path: /nfs/sc/disks/sc_aepde001/user/aaarcemu/TestContentTool/demo/src_demo/spr_u0/LOGS/vaultmgr.log.20
vaultmgr -I- Encountered 0 errors, 0 warnings
vaultmgr -I- Run time was 56 seconds

TestContentTool -INFO- | Previous TID does not exist for adpll_hct_c4_r0_x8_lckcap_demoall.spf
TestContentTool -INFO- | Writing Deposit Vault ...
TestContentTool -INFO- | Deposit File path:/nfs/sc/disks/sc_aepde001/user/aaarcemu/TestContentTool/demo/patarea/adpll_hct_c4_r0_x8_lckcap_demo
oall | SPF path:/nfs/sc/disks/sc_aepde001/user/aaarcemu/TestContentTool/demo/inputs/all_spf/adpll_hct_c4_r0_x8_lckcap_demoall.spf
TestContentTool -INFO- | WriteDepositFile turninFile:turnin.list Total:1
TestContentTool -INFO- | Running Vault Deposit ...
TestContentTool -INFO- | Vault Deposit Complete!!
TestContentTool -INFO- | NEW TID: 5726268
TestContentTool -INFO- | Printing TID list file
TestContentTool -INFO- | Summary of TID numbers is placed into TID.list file
TestContentTool -INFO- | Running Itrace...
TestContentTool -INFO- | Running Itrace from previous Vault Output
TestContentTool -INFO- | Processing TID: 5726043
TestContentTool -INFO- | Processing TID: 5726047
TestContentTool -INFO- | Processing TID: 5726076
TestContentTool -INFO- | Processing TID: 5726096
TestContentTool -INFO- | Processing TID: 5726162
TestContentTool -INFO- | Processing TID: 5726185
TestContentTool -INFO- | Processing TID: 5726221
TestContentTool -INFO- | Processing TID: 5726268
TestContentTool -INFO- | Running Itrace: totalcount: 8 passcount: 0 failcount: 0
TestContentTool -INFO- | Running Itrace: totalcount: 8 passcount: 0 failcount: 0
TestContentTool -INFO- | Running Itrace: totalcount: 8 passcount: 0 failcount: 0
TestContentTool -INFO- | Running Itrace: totalcount: 8 passcount: 0 failcount: 0
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TestContentTool -INFO- | Running Itrace: totalcount: 8 passcount: 0 failcount: 0
TestContentTool -INFO- | Running Itrace: totalcount: 8 passcount: 0 failcount: 0
TestContentTool -INFO- | Running Itrace: totalcount: 8 passcount: 4 failcount: 0
TestContentTool -INFO- | Running Itrace: totalcount: 8 passcount: 6 failcount: 0
TestContentTool -INFO- | Running Itrace: totalcount: 8 passcount: 8 failcount: 0
TestContentTool -INFO- | Waiting for tuples to be refresh ...
TestContentTool -INFO- | Waiting for tuples to be refresh ...
TestContentTool -INFO- | Waiting for tuples to be refresh ...
TestContentTool -INFO- | TID: 5726043
TestContentTool -INFO- | Tuple found: g3647195
TestContentTool -INFO- | Source Path: /p/pde/tvpv/spr/spr_ee/trc/g00/s95/g3647195V5726043D_00_SU051TSs_Gnm220000benC_/g3647195V5726043D_00_SU
051TSs_Gnm220000benC_XXX1xxv_a080818bxxx02_XXXXXXXXXXXXXXXXXX00_adpll_mccddr_c4_r6_x16_lckcap_demoall.itpp.gz.bz2 : [HTD_VER__sprsp_1cc_srvr10nm_21ww
47a_eng_2020_ww45a,LI_pll_ph5_oddball,VFREV_0.1]

TestContentTool -INFO- | Tuple:g3647228
TestContentTool -INFO- | Printing tuple list file
TestContentTool -INFO- | ITRACE Complete!!! TUPLES.list and TID.list files generated
TestContentTool -INFO- | Running VCF from previous iTrace result
TestContentTool -INFO- | Processing Tuple: g3647195
TestContentTool -INFO- | Processing Tuple: g3647199
TestContentTool -INFO- | Processing Tuple: g3647182
TestContentTool -INFO- | Processing Tuple: g3647181
TestContentTool -INFO- | Processing Tuple: g3647184
TestContentTool -INFO- | Processing Tuple: g3647177
TestContentTool -INFO- | Processing Tuple: g3647229
TestContentTool -INFO- | Processing Tuple: g3647228
TestContentTool -INFO- | VCF is Complete!! Check results on Rundir Folder
TestContentTool -EXIT- 2021_12_16_15_54_24

=====
```

```

Compile PASS g3647181V5726096D_00_SU051Tss_Gnm220000benC_xxx1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adp11_pi5_c3_r0_xX_cfgstatcap_demoall
Compile PASS g3647182V5726076D_00_SU051Tss_Gnm220000benC_xxx1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adp11_pi5_c2_r8_xX_cfgstatcap_demoall
Compile PASS g3647184V5726162D_00_SU051Tss_Gnm220000benC_xxx1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adp11_pi5_c2_r8_x20_1ckcap_demoall
Compile PASS g3647195V5726043D_00_SU051Tss_Gnm220000benC_xxx1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adp11_mcddr_c4_r6_x16_1ckcap_demoall
Compile PASS g3647199V5726047D_00_SU051Tss_Gnm220000benC_xxx1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adp11_mcddr_c4_r6_xX_cfgstatcap_demoall
Compile PASS g3647228V5726268D_00_SU051Tss_Gnm220000benC_xxx1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adp11_hct_c4_r0_x8_1ckcap_demoall
Compile PASS g3647229V5726221D_00_SU051Tss_Gnm220000benC_xxx1xxv_a080818bxxx02_SU1PTET0SC03x1dz_x00_adp11_hct_c4_r0_xX_cfgstatcap_demoall
Compile PASS spr_com_A_cf1dz_sub11_Mclk_S_0
DEBUG : patinfo indicator wait complete in 1.5 secs
DEBUG : TIME Elapsed wait_patinfo: 1.535 Secs
Debug plist is created in /p/pde/tvpv/spr/run_logs/vcf/vrevSU1P/aaarcemu/Rundir_vcf_162849A_sprSC_cencen_rel_hdmt2_vrevSU1P_hdmt2_hvm400_TUPLE.list/
tst
DEBUG : STEPPING TO TRUNK:
DEBUG : None: {'modelstep': 'A0'}
DEBUG : None: {'modelstep': 'B0'}
WARNING : Unable to locate the trunk for input tuple(s). Skipping GenPlist
WARNING : No plist(s) were generated. Pls refer to /p/pde/tvpv/spr/run_logs/vcf/vrevSU1P/aaarcemu/Rundir_vcf_162849A_sprSC_cencen_rel_hdmt2_vrevSU1P
_hdmt2_hvm400_TUPLE.list/tst/pcar.log

Elapsed Time: 144.329 Secs
Final Status:
DEBUG : 2021-12-16_15:54:23: NBSlot Info: Jobs 8, Waiting 0, Running 0, WaitQueueSlot 0, RunningInSlot 0, CurrentTime 15:54:23, NBStatus_Elap: 0.8
05 Secs
DEBUG : =====
Flow | Pass | Fail | Running | Waiting | Total
Convert | 8 | 0 | 0 | 0 | 8
Comfile | 8 | 0 | 0 | 0 | 8
Compile | 8 | 0 | 0 | 0 | 8
Total | 8 | 0 | 0 | 0 | 8
=====
DEBUG : Status: Clean

```