

19. July 2019

When looking through X machines at customers, I noticed that some Code 100 programs were not properly after burned, i.e. not accelerated with the OCAX, but still have AXCEL and/or OCA extensions.

This is not a security problem, but a performance problem: Code 100 programs with the OCAX extension run by classes faster than those without this extension!

The old extensions (AXCEL, OCA) are superfluous, take up space and are useless on X machines: They can be removed.

This has prompted GreenHouse to develop a FreeWare tool to programmatically fix this problem, if it is one.

Syntax is:

```
OCAXCHK /[OUT <file>/] <file-template> [!|DOIT]
```

where:

<file-template> describes the files to be processed;
* and ? are supported as template characters.
e.g.: OCAXCHK\$GHS?.SECOM*.*

!|DOIT Callsign, or the word DOIT, optional;
e.g.: OCAXCHK\$SYSTEM.SYS??.*!
If it is missing, nothing will be changed, but all possible actions possibly are displayed for code 100 files.
If it is passed with , these possible actions take place:
- If an AXCEL extension exists, it is deleted.
- If the OCA extension exists, it is deleted.
- If the OCAX extension is missing, it is inserted.

- The tool is called - how else could it be - OCAXCHK.
- Since this tool must have read and write access to the objects, it must be executed with SUPER.SUPER.
If it doesn't, there will be an error message - and that's it.
- Open objects are NOT touched.
- Files with the name: ZZZZnnnn are not processed (n = numeric).
- OCAXCHK also saves these file attributes
 - RWEPE (Read, Write, Execute, Purge)
 - Last Open Timestamp
 - Last Modification Timestampbefore a change and resets it to the original values after a change.
- If the AXCEL or OCA extension is deleted or an OCA extension is added, the EOF changes!
- This version only runs on X machines, so NOT on S, Itanium or Blade machines.

Notes on OCAX:

When this message appears in the output:

```
$GHS1.SECOM700.A          -> *** OCAX NOT inserted
```

then OCAX had a problem with an old Code 100 file.

The error can be seen when running OCAX with the file from TACL:

```
$GHS1 OCAXCHK 50> ocax $ghs1.secom700.a
OCAX - T0892L01 - (Jul  5 2017 10:44:37)
Copyright 2017 Hewlett Packard Enterprise Development LP.
\OAK.$X00AH:2943453 - *** Run-time Error 002 ***
\OAK.$X00AH:2943453 - Illegal address reference
\OAK.$X00AH:2943453 - From ---
\OAK.$X00AH:2943453 -      CtrlFlo_IsRpMismatched + 0xF1 (UCr)
\OAK.$X00AH:2943453 -      CtrlFlo_IsAncestorRpMismatched + 0x49 (UCr)
\OAK.$X00AH:2943453 -      Rpa_MarkRP + 0x7FA (UCr)
\OAK.$X00AH:2943453 -      main + 0x4F0 (UCr)
\OAK.$X00AH:2943453 -      _MAIN + 0x4C (UCr)
  Save file \OAK.$SYSTEM.SYSTEM.ZZSA2061 created for process 1,998 ($X00AH)
ABENDED: $X00AH
CPU time: 0:00:00.047
3: Premature process termination with fatal errors or diagnostics
$GHS1 OCAXCHK 51>
```

This is a 'day one' bug in OCAX (and as well in OCA). There is a case at HPE and they are working on a fix. As soon as I have it, I will make it available to you.

Please follow these steps:

1. Logon to SUPER.SUPER, a related Alias user, or build a corresponding SECOM command.
2. Run OCAXCHK for ONE code 100 file:
`OCAX <file>`
and check, what OCAXCHK says to the file.
3. Use VPRIC to check, if OCAXCHK is right.
4. In case the file has an OCAX-extension already, delete it with BIND:
`BIND STRIP <file>,OCAX`
5. The tun OCAXCHK with the DOIT command:
`OCAX <file> DOIT`
and check with VFPROC, if OCAXCHK has inserted the OCAX extension correctly.
6. To execute a bunch of code 100 object files., run OCAXCHK with this command:
`OCAXCHK [/OUT <out-file>/] <template>`
where
`<out-file>` e.g. a SPOOLER, or any file.
In case the file does not exist, it is created as an EDIT type file.
`<template>` defines the files to be executed..
Template characters * and ? are supported.
7. Check the OUT file to make sure, everything works as expected.
8. When you are satisfied, run OCAXCHK with this command:
`OCAXCHK [/OUT <out-file>/] <template> DOIT`
to start the um die adjustment.

Of course we are available for questions and wishes at any time and also install these: The satisfaction of our customers is the capital of GreenHouse!

Beste Grüße,

Carl Weber