



***art 2.10.03* and beyond**

Kyle J. Knoepfel

22 February 2018

art 2.10.03

- Released earlier this week with a bug-fix
 - The number of threads TBB can use is now configurable (a typo in the past prevented this)
- Currently released versions of *art* do not explicitly invoke any TBB algorithms.
- With *art 3.0*, TBB will be used for multi-threading.
 - Number of threads **and** number of schedules will be configurable

Proposed change

- Consider *art* jobs that intentionally do not process any events:

- `art --version`

```
art 2.10.02
Art has completed and will exit with status 1.
```

- `art --help`

```
    --sam-inherit-run-type          Input
Art has completed and will exit with status 1.
```

- `art --print-description EmptyEvent`

```

-----
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-----
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```

Two issues:

- Extra verbiage: “Art has completed...status 1.” for non-event-processing invocations of *art*.
- Even though the *art* program is successful, the return code is non-zero.

Proposed change

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- `art --version`

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art 2.10.02  
Art has completed and will exit with status 1.
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Two issues:

- `art --help`

```
...  
--sam-inherit-run-type  
...  
Art has completed and will exit with status 1.
```

- Extra verbiage: “Art has completed, status 1” for non-

- `art --print-description Em`

```
...  
-----  
...  
Art has completed and will exit with status 1.
```

Proposal:

- All successful program executions of *art* shall have a return code of 0.
- The “Art has completed” statement will be removed for intentionally non-event-processing jobs.

Bash completions

- The `art` execs currently support 66 program options (type `art -h` to see them all).
- There are ~10 other execs that have their own program options.
- Typing them correctly can be a chore.
- The next minor release of *art* will support command-line program-option expansion (bash completions).
- Users of `cetbuildtools` will be able to create their own bash completions
 - The mechanisms being developed support the Boost program-options library output format.
- TCSH completions are not being explored.

***art* MT forum—next session is Thurs. Mar. 1 (1 pm)**

- 1 pm in Comitium (WH2SE)
- Topics:
 - Proposed behavior for *art* 3.0
 - Random number behavior in MT
 - etc.