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Please **help edit** these minutes during/after the call. You can add notes at the end.

In attendance: (please **add yourself**)

- Michael R. Crusoe (ELIXIR-NL, CWL)
- Mihai Popescu (GSoC / VU Amsterdam)
- Lon Blauvelt (UCSC; Toil)
- Bogdan Gavrilovic (SBG)
- Jeffrey Grover (SBG)
- Peter Amstutz (Curii, Arvados, CWL)
- Michael Kotliar (CCHMC)
- Sarah Wait Zaranek (Curii, Arvados)
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Date: [2021-06-08 14:30 UTC](#)

Previous meeting minutes:

[☰ 2021-06-01 EMEA-Americas Common Workflow Language meeting notes](#)

Next EMEA-Americas CWL meeting: [2021-06-15 14:30 UTC](#)

Next Asia-Pacific CWL meeting: TBD, needs a new facilitator

Agenda

(add your topic suggestions below)

- Michael Kotliar putting together JOSS paper for schema-salad
 - Link: https://github.com/common-workflow-language/schema_salad/issues/390
- Pull request ready for review in CWL-Patterns
 - Link: <https://github.com/common-workflow-library/cwl-patterns/pull/4>
- Bogdan's proposal for a new linkMerge method:
<https://github.com/common-workflow-language/common-workflow-language/issues/923>
 - Bogdan will document a Javascript workaround

- Michael started the CWL v1.3(.0-dev1) repo for PRs and discussion:
<https://github.com/common-workflow-language/cwl-v1.3>

CWL + GPUs update from Peter Amstutz

Lots of research and details of his proposal at <https://dev.arvados.org/issues/17240>

CUDARequirement:

```
minCUDADriverVersion: "10.0"          (required)
minHardwareCapabilityCubins: ["7.0", "8.0"] (optional, default null)
minHardwareCapabilityPTX: "7.0"        (optional, default null)
minDeviceCount: 1                      (optional, default 1)
maxDeviceCount: 1                      (optional, default 1)
```

- minCUDADriverVersion: minimum driver version. CUDA SDK version (each SDK release mostly corresponds to a new driver revision). We *could* use the driver revision but that seems more likely to confuse people.
- minHardwareCapabilityCubins: supported nvidia architectures, if GPU programs are precompiled
- minHardwareCapabilityPTX: minimum hardware architecture, if using JIT compilation from PTX or C++
- min/maxDeviceCount: can request/require multiple devices, if program supports it.

(We also welcome proposals for none-CUDA GPU support in CWL; we do not aim to exclude other GPU vendors..)

Other workflow systems rely on hardcoding instance types

Michael asks: how to map these to AWS, GCloud, Azure instance types & machines images (AMIs)? Maybe we can add that to cwl-utils..

Relationship between cwltool, toil-cwl-runner, and new users

Some concerns: confusion between toil-cwl-runner and Toil itself. Possible usability challenges. Would this mean extra work for new users?