JSR 352 Expert Group

Working Session

15 February 2012

Agenda

- ◘ Recap: Step Definition

- ◘ Discussion: Job Definition

- ◘ Discussion: Checkpoint Model

- ◘ Discussion: CDI

- ◘ List for Next Meeting

Recap: Step Definition (so far)

◘ Annotation-based

◘ @Step at class level

◘ Callbacks at method level
  ◘ @CreateStep (factory?)
  ◘ @BeginStep/@EndStep
  ◘ @SetProperties
  ◘ @RunStep
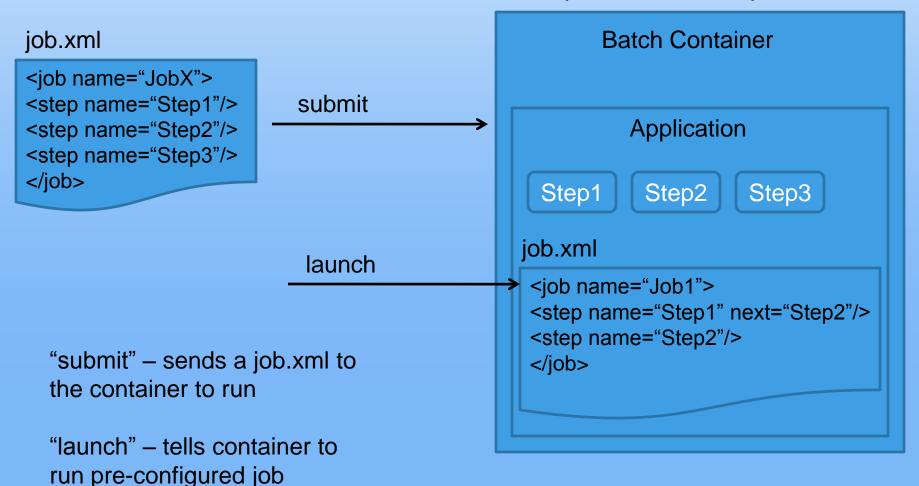 ◘ @GetReturnCode

Recap: Step Definition (so far)…

- Things you can specify at step level:
  - Name @Step(name=…)
  - Parallelization @Step(…,parallel=true)
  - Properties @Step(…,properties={ … })
- Not yet addressed:
  - Relationship of step to readers/writers
  - Relationship of step to checkpoint policy
  - Separate discussion required

Discussion: Job Definition

◘ Annotations or DSL (JCL?) or Both

    ◘ Probably XML

    ◘ Nothing wrong with both – spec overkill?

    ◘ If we picked one, does it prevent the other?

    ◘ Pick one and allow implementer freedom?

◘ JCL – internal or external to application?

Discussion: Job Definition

▪ JCL – internal or external (or both??)

job.xml

```
<job name="JobX">
<step name="Step1"/>
<step name="Step2"/>
<step name="Step3"/>
</job>
```

submit →

launch →

Batch Container

Application

| Step1 | Step2 | Step3 |

job.xml

```
<job name="Job1">
<step name="Step1" next="Step2"/>
<step name="Step2"/>
</job>
```

"submit" – sends a job.xml to the container to run

"launch" – tells container to run pre-configured job

Discussion: Checkpoint Model

- Container-centric or Reader Centric
  - Container-centric
    - Loop: container<>step
      - Container checkpoints according to policy
    - Pros: flexible support of multiple readers/writers
    - Cons: non-obvious loop (unnatural)

  - Reader-centric
    - Loop: step<>reader
      - Reader checkpoints according to policy
    - Pros: obvious loop (natural)
    - Cons: rigid support for multiple readers/writers

Discussion: CDI

◘ Proposal: CDI should be available for developers but not an inherent part of the spec.

◘ Developers can access CDI to instantiate
- ◘ Jobs, Steps, Readers/Writers

List for Next Meeting

- Job Initiation (submit command, launchers, etc)
- Step Concurrency
- Readers/Writers
- Metrics
- What else?