

Filling

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Description:

Model URL: *<https://opcloud.systems/load/-O1H63i5fLzmUjPKZ-em>*

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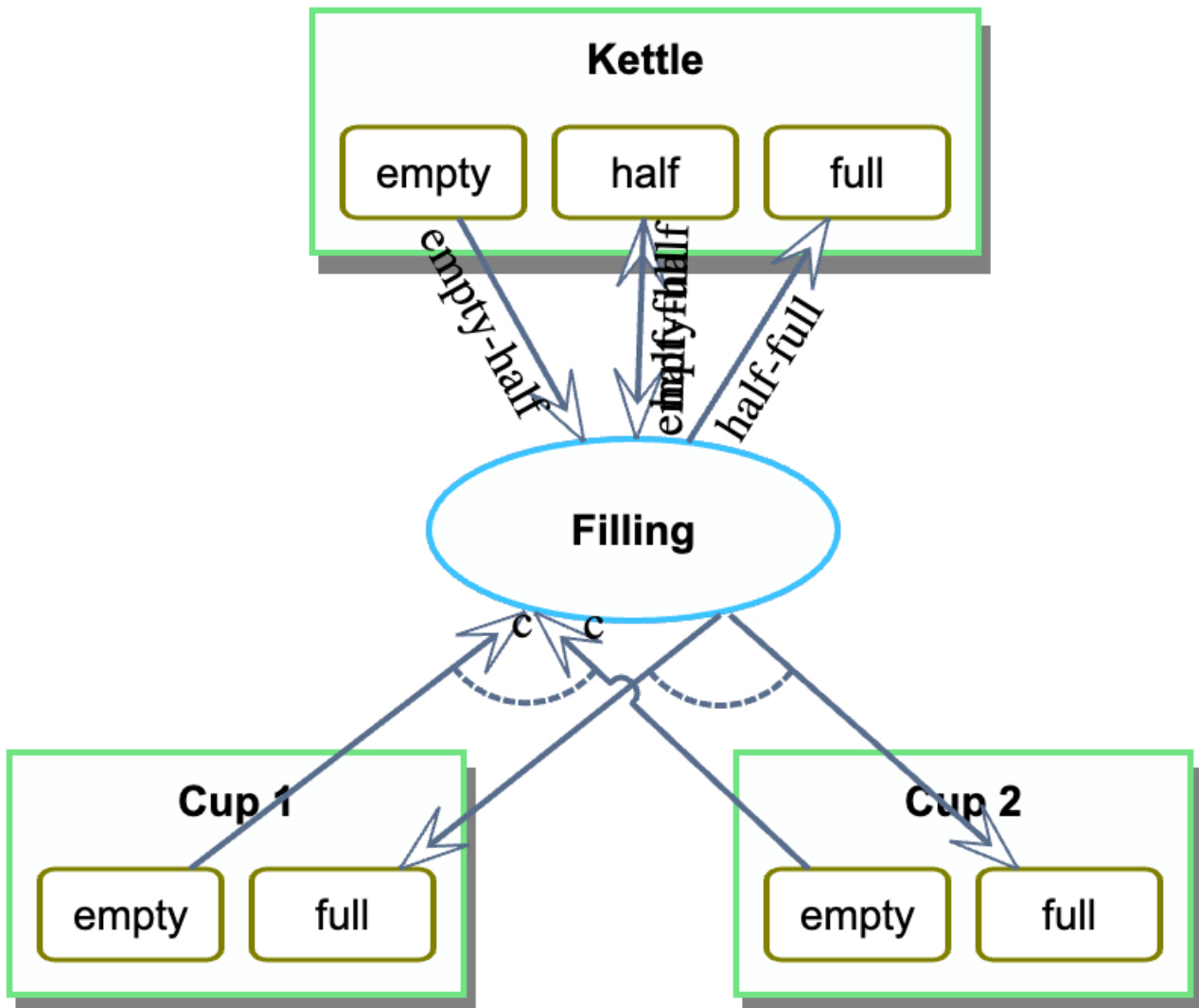
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OPD Tree:

SD

DIAGRAMS & OPL

SD



1. **Kettle** is a physical object.
 2. **Kettle** can be **empty**, **full** or **half**.
 3. **Cup 1** is a physical object.
 4. **Cup 1** can be **empty** or **full**.
 5. **Cup 2** is a physical object.
 6. **Cup 2** can be **empty** or **full**.
 7. Following path **empty-half**, **Filling** changes **Kettle** from **empty** to **half**.
 8. Following path **half-full**, **Filling** changes **Kettle** from **half** to **full**.
 9. **Filling** yields exactly one of **Cup 1** at state **full** and **Cup 2** at state **full**.
 10. **Filling** occurs if exactly one of **Cup 1** at state **empty** and **Cup 2** at state **empty** exists, in which case **Filling** consumes the existed one, otherwise **Filling** is skipped.
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ELEMENTS DICTIONARY

Things

Objects:

Object Name: Kettle

Object Opds:

SD

Object States:

empty

half

full

Object Name: Cup 1

Object Opds:

SD

Object States:

empty

full

Object Name: Cup 2

Object Opds:

SD

Object States:

empty

full

Processes:

Process Name: Filling

Process Opds:

SD

Relations

Procedural Relations:

Result

Source Name: *Filling*

Target(s) Name: *full*

Source Name: *Filling*

Target(s) Name: *full*

Source Name: *Filling*

Target(s) Name: *half*

Source Name: *Filling*

Target(s) Name: *full*

Consumption

Source Name: *empty*
Target(s) Name: *Filling*

Source Name: *empty*
Target(s) Name: *Filling*

Source Name: *empty*
Target(s) Name: *Filling*

Source Name: *half*
Target(s) Name: *Filling*

Fundamental Relations:

Tagged Relations:
