# CS-Studio and EPICS Database

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# Database

```
cd /ics/examples/01_first_steps
cat speed.db
```
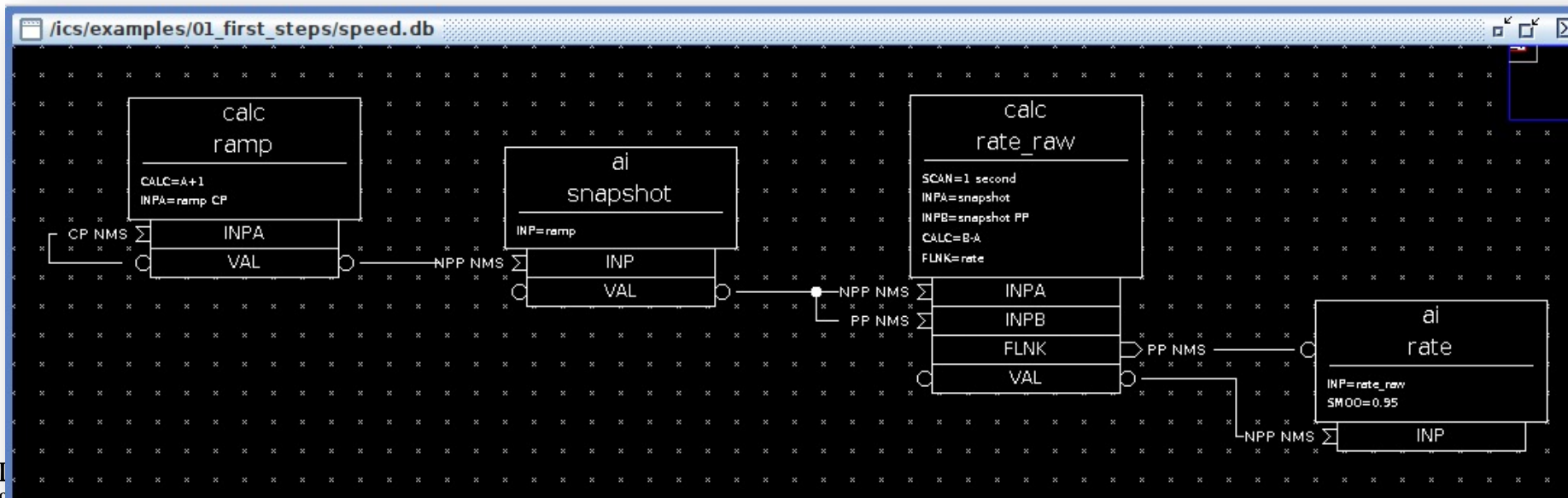
- Which record gets scanned periodically?

- What does it do, what's it's purpose?

- Explain the "CP" in the "ramp" record's INPA

- Explain the SMOO field in the "rate" record

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# Database in VDCT

```
cd /ics/examples/01_first_steps
```

```
vdct speed.db
```

- Move the records around until you have a "nice" looking layout
  - All connections ('wires') must be detangled
  - Data should roughly 'flow' in one direction, for example left-to-right

# Start IOC, basic checks

- In one terminal:
  ```
  cd /ics/examples/01_first_steps
  softIoc —d speed.db
  ```

- In another terminal:
  ```
  caget ramp
  caget ramp
  camonitor rate
  ```

- Why is 'camonitor ramp' a bad idea?

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# View in CS-Studio

- In terminal:
  `css`

- In CS-Studio
  - Menu Applications, Display, PV Tree, PV Name: "rate"
  - Menu Applications, Display, Data Browser
  - Right-click inside plot, Add PV, "rate"
  - View for a while, zoom/pan to properly display the data
  - In terminal, `caput rate.SMOO 0` and compare