

A decorative graphic on the left side of the slide features a cluster of circles in various colors (green, blue, purple, pink) and sizes, arranged in a roughly circular pattern. Each circle has a soft, grey shadow beneath it, giving the impression of floating or being slightly raised from the background.

# BTF: A CASE STUDY

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- › Another company showed interest in tracing, this is an opportunity to have another partner contributing, giving feedback, etc...
- › People from Bosch have a pre-defined trace format. How can we work with it?
  - Possibility 1- convert internal format to CTF, view with Babeltrace/LTTv/Trace Compass/TMF...
  - Possibility 2- make TMF read BTF format traces
  - We chose: BOTH

# BTF SPECIFICATION

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- › BTF: Best Trace Format.
- › BTF spec is a CC-BY-SA – like license
- › BTF uses:
  - Plain text
  - Pre-defined event types
  - Metadata
  - Details about the events
  - Supplied state systems
  - Supplied suggested views
  - In fact, it's more of a trace domain!

# WHAT WAS DONE

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- › BTF native parser
- › Custom events table
- › Properties
- › Custom state systems (in java)
- › Custom viewer (XML defined)
- › Reports view prototype
- › Test cases!

# IMPLEMENTING THE BTF PROTOTYPE

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- › Took 1 week for 2 developers
- › 1-2 weeks for clean up afterwards
- › It took longer to get the permission to show our work than to implement it!

# PARSER

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- › Simple text parser
- › Creates specific event types
- › All the documentation was copied into the event types to give clear descriptions when available
- › O(1) seeks
- › Using absolute time if the creation time is available

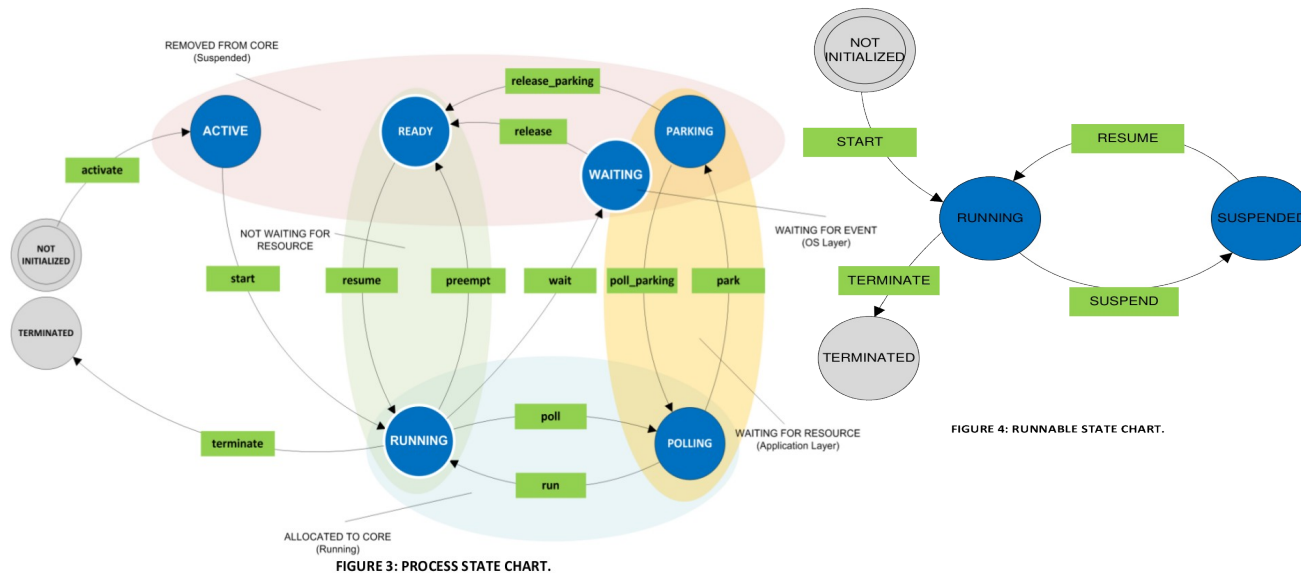
# CUSTOM TABLE/PROPERTIES

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- › Custom Table with columns that are equivalent to the fields in the BTF file
- › Searching and filtering work
- › Trace properties include metadata
- › Event properties show detailed information

# STATE SYSTEM

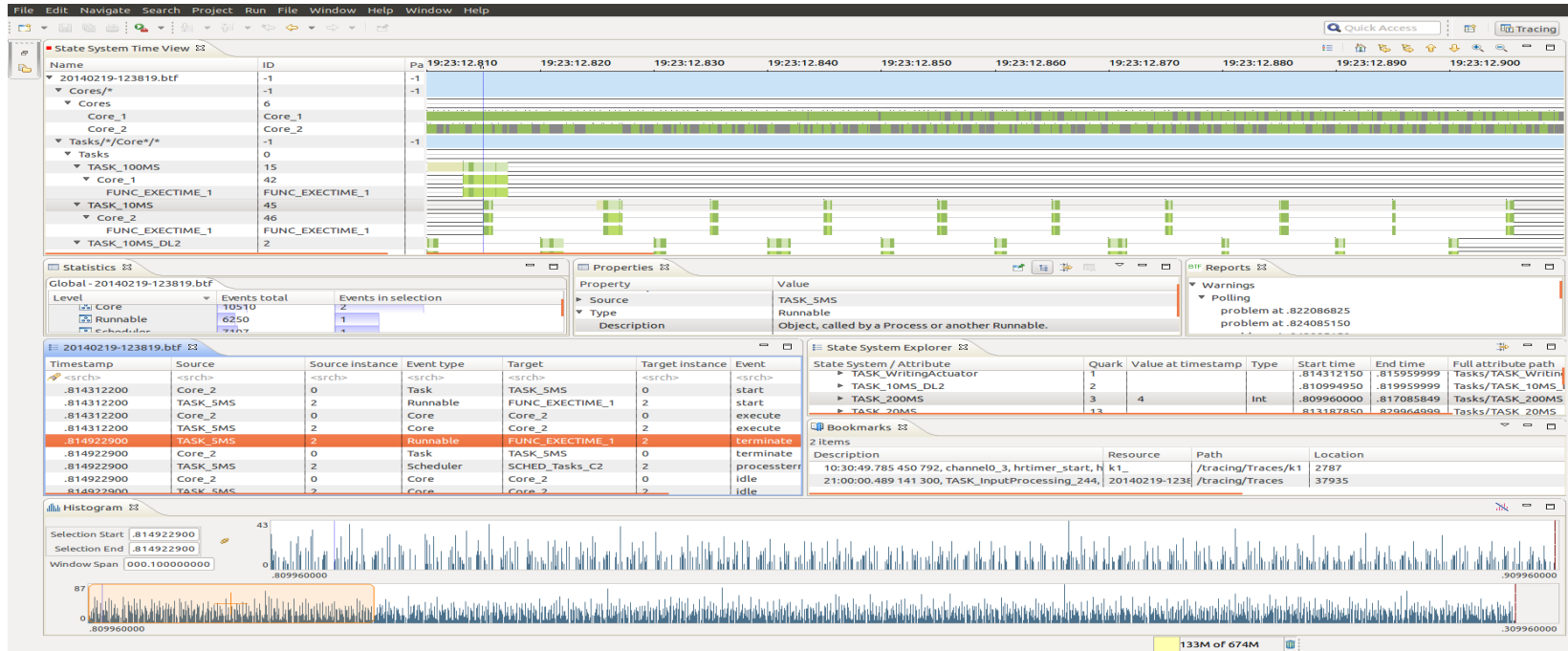
- > Simple to add, as it has been defined in the specification





# CUSTOM VIEWER

- > XML defined
- > Under 50 lines!



# BTF: WHAT'S NEXT?

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## > Immediate

- Hand over to Bosch and their partners

## > Short term

- Task Migration views
- Real reports view

## > Long term

- Latency views
  - > Task activation delay
  - > Time to lock a resource
  - > Time a resource is locked
  - > Task execution jitter
- Critical path

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DEMO [HTTP://YOUTU.BE/T4F5KU2A6RC](http://youtu.be/T4F5KU2A6RC)

# QUESTIONS?

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Thank you for your interest

PS. Thanks Florian!