

Embracing CI for gstreamer codec acceleration on Intel platform

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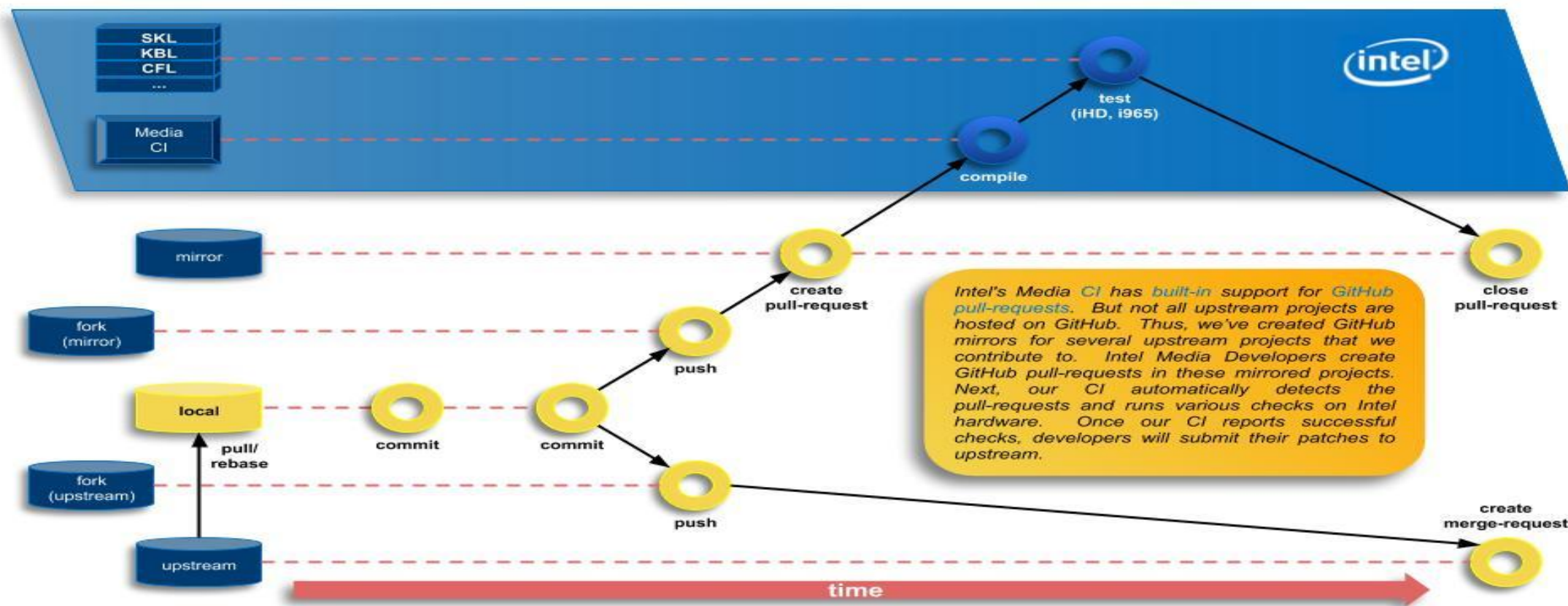
Why

- Regression check before submitted
- Various platforms
 - SKL/APL/KBL/CFL/CML/ICL...
- Lots of features
 - Decoding / Encoding / Transcoding/ Video Processing
- Contributions from different developers

Intel Media CI for gstreamer

- Pre-check for patch submission (public)
 - <https://github.com/intel-media-ci/gst-plugins-bad>
 - <https://github.com/intel-media-ci/gstreamer-vaapi>
- daily regression check (internal)
- weekly full round (internal)

Pre-check



VAAPI-FITS

- A test suite for VA-API based media software/middleware, widely used in Intel Media CI
- <https://github.com/intel/vaapi-fits>
- Example
 - Run gst-msdk test cases for KBL platform
 - LIBVA_DRIVER_NAME=iHD ./vaapi-fits run test/gst-msdk --platform KBL

New features / improvements in gst-msdk / gst-vaapi

- VP9 encoding: 8-bit / 10-bit , 422 / 444
- VP9 decoding: 10-bit, 422 / 444
- HEVC decoding: 10-bit, 422 / 444
- HEVC encoding: 10-bit, 422 / 444, low-power, tiled encoding
- Support more formats in vpp
- Plan:
 - 12bit support
 - AV1