Working with REDHAWK

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Index

- Initial Project
- Rocko to Thud
- Current Project
- Extension to Project

Initial Project

- Updating the Yocto version for REDHAWK from Rocko (2.4) to Thud (2.6).
- Latest Xilinx layer targets Yocto 2.6

Codename	Yocto Project Version	Release Date	Current Version	Support Level	Poky Version	BitBake branch
	2.9	April 2020		Dreaming	23.0	1.46
Zeus	2.8	October 2019		Planning	22.0	1.44
Warrior	2.7	April 2019	2.7.0	Stable	21.0	1.42
Thud	2.6	November 2018	2.6.2	Stable	20.0	1.40
Sumo	2.5	April 2018	2.5.3	Community	19.0	1.38
Rocko	2.4	Oct 2017	2.4.4	Community	18.0	1.36

Rocko (2.4) to Thud (2.6) Changes to REDHAWK

- Deprecated libraries and recipes
- Patches
- Some function calls removed
- All recorded on Geontech's Github: meta-REDHAWK-sdr

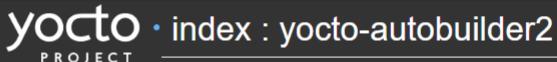|	
edited layer.conf to change layercompatibility to 'thud'	c085ecf
edited rh-sinkvita_49_3.1.0.bb to include patches	8ac227f
edited rh-sourcevita49_3.1.0.bb recipe to include patches	29b0df0
added PROVIDES to bulkiointerfaces recipe	152a595
Added InPortImp.patch	0c55cef
added python-setuptools to dependencies in attempt to solve redhawk-c… ⋯	4ef82d2
changed dependencies python-* to just python. Since ossp-uuid was dep… ⋯	faeca87
add daemon_unixcc.patch	a3787d2
pass a string in these cpp files as a string literal	596ac71
add patches for these cpp files in rh-sourcevita49	5bfdd86
include InPortImpl.patch to burstiointerfaces for variable casting	34607cb

Current Project

- Establish base set of base disk images on common embedded targets
- Targets: ZedBoard, Intel Stratix 10, Raspberry Pi, Xilinx zcu102, zcu111, zcu106, zc706, PicoZed
- Establish yum package repository for REDHAWK - all necessary installation packages

Extension to Project

- Yocto's *Autobuilder2* build server
- Easily maintain targets rather than manual set up per computer

- Build server will act as large, common "shared state cache" per supported Yocto release
  - accelerate internal development by reuse of pre-compiled packages

Thank you!