

PetaLinux TE-Template

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PetaLinux 2023.2



Petalinux 2023.2 is under review documentation for 2023.2 can be changed permanently at the moment

Create own template

1. Clear existing project with: **petalinux-build -x mrproper**
 - a. **in** case changes in u-boot or kernel, see Issues and note
2. change/remove manually(on linux file manager press Strg+H to see hidden files):

folder/file	Delete	Note
<base folder>	• *.xsa • .gitignore	"config.project" must be stay there
.petalinux/	all, excepted "metadata"	"metadata" must be stay there
.xil/	complete folder	
components/	---	should be empty

project-spec/	• yocto-layer.log	"attributes" must be stay there
project-spec/configs/	• *.old • .Xil	"config" and "rootfs_config" must be stay there
project-spec/hw-description/	all, excepted "metadata"	"metadata" must be stay there
project-spec/meta-user	---	complete folder must be stay there

3. uncomment DDR settings in ""project-spec/configs/config", see Issues and notes

Use template

1. copy xsa into base folder
2. reload XSA with **petalinux-config --get-hw-description**
3. build or change design like prefer

Issues and Notes

Issue	Workaround	Note
DDR size will be not reloaded	comment out DDR settings in "project-spec/configs/config" to force DDR reload with XSA import	Only important, if DDR size will is changed

PetaLinux 2022.2

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project-spec/configs/	• config.old • rootfs_config.old	"config" and "rootfs_config" must be stay there
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PetaLinux 2021.2



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components/	---	should be empty
project-spec/	• yocto-layer.log	"attributes" must be stay there
project-spec/configs/	• config.old • rootfs_config.old	"config" and "rootfs_config" must be stay there
project-spec/hw-description/	all, excepted "metadata"	"metadata" must be stay there
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PetaLinux 2020.2

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.xil/	complete folder	
components/	---	should be empty
project-spec/	• yocto-layer.log	"attributes" must be stay there
project-spec/configs/	• config.old • rootfs_config.old	"config" and "rootfs_config" must be stay there
project-spec/hw-description/	all, excepted "metadata"	"metadata" must be stay there
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Issues and Notes

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DDR size will be not reloaded	comment out DDR settings in "project-spec/configs/config" to force DDR reload with XSA import	Only important, if DDR size will is changed

PetaLinux 2019.2

Create own template

1. Clear existing project with: **petalinux-build -x mrproper**
 - a. in case changes in u-boot or kernel, see Issues and note
2. change/remove manually:

folder/file	Delete	Note
<base folder>	• *.xsa • .gitignore	"config.project" must be stay there
.petalinux/	all, excepted "metadata"	"metadata" must be stay there
.xil/	complete folder	
components/	---	should be empty
project-spec/	• yocto-layer.log	"attributes" must be stay there
project-spec/configs/	• config.old • rootfs_config.old	"config" and "rootfs_config" must be stay there
project-spec/hw-description/	all, excepted "metadata"	"metadata" must be stay there
project-spec/meta-plnx-generated	complete folder	
project-spec/meta-user	---	complete folder must be stay there

Use template

1. copy hdf into base folder
2. reload XSA with **petalinux-config --get-hw-description**
3. build or change design like prefer

Issues and Notes

Issue	Workaround	Note
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DDR size will be not reloaded	comment out DDR settings in "project-spec/configs /config" to force DDR reload with HDF import	Only important, if DDR size will is changed
Kernel and u-boot changes will not saved automatically in meta-user	run: - petalinux-build -c kernel -x finish -f - petalinux-build -c u-boot -x finish -f before the project will be cleared.	only need if you change something in uboot or kernel setup

PetaLinux 2018.3

Create own template

1. Clear existing project with: **petalinux-build -x mrproper**
2. change/remove manually:

folder/file	Delete	Note
<base folder>	*.hdf .gitignore	"config.project" must be stay there
.petalinux/	all, excepted "metadata"	"metadata" must be stay there
.xil/	complete folder	
components/	---	should be empty
project-spec/	yocto-layer.log	"attributes" must be stay there
project-spec/configs/	- config.old - rootfs_config.old	"config" and "rootfs_config" must be stay there
project-spec/hw-description/	all, excepted "metadata"	"metadata" must be stay there
project-spec/meta-plnx-generated	complete folder	
project-spec/meta-user	---	complete folder must be stay there

Use template

1. copy hdf into base folder
2. reload HDF with **petalinux-config --get-hw-description**
3. build or change design like prefer

Issues and Notes

Issue	Workaround	Note
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DDR size will be not reloaded	comment out DDR settings in "project-spec/configs/config" to force DDR reload with HDF import	Only important, if DDR size will is changed
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PetaLinux 2018.2

Create own template

1. Clear existing project with: **petalinux-build -x mrproper**
2. change/remove manually:

folder/file	Delete	Note
<base folder>	• *.hdf • .gitignore	"config.project" must be stay there
.petalinux/	all, excepted "metadata"	"metadata" must be stay there
.xil/	complete folder	
components/	---	should be empty
project-spec/	• yocto-layer.log	"attributes" must be stay there
project-spec/configs/	• config.old • rootfs_config.old	"config" and "rootfs_config" must be stay there
project-spec/hw-description/	all, excepted "metadata"	"metadata" must be stay there
project-spec/meta-plnx-generated	complete folder	
project-spec/meta-user	---	complete folder must be stay there

Use template

1. copy hdf into base folder
2. reload HDF with **petalinux-config --get-hw-description**
3. build or change design like prefer

Issues and Notes

Issue	Workaround	Note
DDR size will be not reloaded	comment out DDR settings in "project-spec/configs/config" to force DDR reload with HDF import	Only important, if DDR size will is changed

PetaLinux 2017.4

Create own template

1. Clear existing project with: **petalinux-build -x mrproper**
2. change/remove manually:

folder/file	Delete Files/Folder	Note
<base folder>	• *.hdf • .gitignore	"config.project" must be stay there
.petalinux/	all, excepted "metadata"	"metadata" must be stay there
.xil/	complete folder	
components/	---	should be empty
project-spec/	• yocto-layer.log	"attributes" must be stay there
project-spec/configs/	• config.old • rootfs_config.old	"config" and "rootfs_config" must be stay there
project-spec/hw-description/	all, excepted "metadata"	"metadata" must be stay there
project-spec/meta-plnx-generated	complete folder	
project-spec/meta-user	---	complete folder must be stay there

Use template

1. copy hdf into base folder
2. reload HDF with **petalinux-config --get-hw-description**
3. build or change design like prefer

Issues and Notes

Issue	Workaround	Note
temp folder path is absolute path	change CONFIG_TMP_DIR_LOCATION from "project-spec /configs/config" to the correct project dir	Trenz Electronic provide init_config.sh script to change path to the current project