

RZ/G Verified Linux Package for 64bit kernel

Version 1.0.2

R01TU0283EJ0101

Rev. 1.01

Patch application guide

Oct. 28, 2019

Introduction

This document describes the contents of the “diff” files of RZ/G Verified Linux Package for 64bit kernel (hereinafter referred to as “VLP64”) and instructions to use them.

Please read the “Release Note” of VLP64 v1.0.2 carefully before using this document.

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1. Release Items

VLP64 is delivered by the files listed in **Table 1**. A develop environment of VLP64 v1.0.1 can be changed to that of VLP64 v1.0.2 by applying the patch files included in diff files without downloading basic packages.

Table 1. RZ/G Verified Linux Package

Diff files for VLP64 v1.0.1 users

File	Explanation
r01tu0283ej0101-rz-g.pdf	This document
v101-to-v102_eva.patch.tar.gz (Evaluation version) v101-to-v102_pro.patch.tar.gz (Product version)	Diff files of Yocto recipes compared with VLP64 v1.0.1 and a new Multimedia package
v101-to-v102.oss_packages.7z	Diff files of OSS packages compared with VLP64 v1.0.1

Basic packages (not used in this document)

File	Explanation
rzg2_bsp_eva_v102.tar.gz (Evaluation version) rzg2_bsp_pro_v102.tar.gz (Product version)	Yocto recipe packages (including Multimedia package)
oss_pkg.7z.001 (500MB) oss_pkg.7z.009 (500MB) oss_pkg.7z.002 (500MB) oss_pkg.7z.010 (500MB) oss_pkg.7z.003 (500MB) oss_pkg.7z.011 (500MB) oss_pkg.7z.004 (500MB) oss_pkg.7z.012 (500MB) oss_pkg.7z.005 (500MB) oss_pkg.7z.013 (500MB) oss_pkg.7z.006 (500MB) oss_pkg.7z.014 (500MB) oss_pkg.7z.007 (500MB) oss_pkg.7z.015 (51MB) oss_pkg.7z.008 (500MB)	Open Source packages (Divided files)

Documents

File	Explanation
r01tu0277ej0102-rz-g.pdf	Release Note
r01tu0278ej0102-rz-g.pdf	Component list

2. Patch Application Guide

This section explains how to prepare a clean environment of VLP64 v1.0.1 and update it to VLP64 v1.0.2.

It is recommended to prepare and use a clean new environment, but if the environment prepared with VLP64 v1.0.1 is being used, it can also be updated with the steps (2) and (4) below. In this case, it is highly recommended to backup whole environment before updating them.

(1) Make working directory (user_work), and decompress Yocto recipe package of v1.0.1

```
$ mkdir ./user_work  
$ tar xvzf ./rzg2_bsp_type_v101.tar.gz -C ./user_work
```

Please replace “*type*” to “*pro*” or “*eva*”. Copy compressed Yocto recipe package files (rzg2_bsp_*pro*_v101.tar.gz for product version, rzg2_bsp_*eva*_v101.tar.gz for evaluation version) to current directory prior to this step.

Note) In case updating existing environment, please revert the patch which enables HDMI with below command if necessary.

```
$ patch -R -p1 < directory/0001-BSP-1.0.1-add-support-HDMI.patch
```

Please replace “*directory*” to the path to the directory which stores the patch file.

(2) Apply patch files to Yocto recipes

```
$ cd user_work  
$ tar xvf v101-to-102_type.patch.tar.gz  
$ patch -p1 < v101-to-v102.patch
```

Please replace “*type*” to “*pro*” or “*eva*”.

(3) Decompress OSS files of v1.0.1 to “build” directory

```
$ mkdir build  
$ cd build  
$ 7z x ../oss_pkg.7z.001 (*1)
```

Copy compressed Yocto recipe package files (oss_pkg.7z.001 - oss_pkg.7z.013) to “user_work” directory prior to this step. All OSS packages will be decompressed at the step marked “*1”. 7zipped files are not able to decompress individually. All oss_pkg.7z files must be placed at a same directory before running 7z command.

(4) Replace OSS files

Remove old files.

```
$ cd user_work/build  
$ rm -rf oss_packages/git2/github.com.renesas-rz.renesas-u-boot-cip.git  
$ rm -rf oss_packages/git2/github.com.renesas-rcar.arm-trusted-firmware.git
```

Copy the compressed OSS diff file to “user_work” directory and decompress new files.

```
$ 7z x ../v101-to-v102.oss_packages.7z
```

(5) Replace Multimedia Package

Remove old files.

```
$ cd user_work  
$ rm -rf proprietary
```

Decompress the new Multimedia package archive.

```
$ tar xvf RZG2_Group_Evaluation_Software_Package_for_Linux_20190927.tar.gz
```

Note) This Multimedia file is included in “v101-to-102_*type*.patch.tar.gz” and already extracted in the second step.
The file name of product version does not contain the term “Evaluation_”.

(6) Build new BSP

Now it is ready to build BSP. Please build it according to the Release Note **section 3.1**. Note that the below steps in the section 3 of the Release Note is not necessary. These steps overwrite your environment.

- (2) Create the working directory, and decompress Yocto recipe package
- (6) Decompress OSS files to “build” directory

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