piuparts.debian.org: systematic QA on 25000 packages

piuparts.debian.org: systematic QA on 27799 packages

piuparts.debian.org: systematic QA on 28886 packages

Trust is good control is better

The road to world domination is paved by policy

Package installation upgrading and removal test suite

wer nutzt piuparts?

wer nutzt piuparts? regelmäßig?

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piuparts.debian.org?

wer nutzt piuparts? regelmäßig?

piuparts.debian.org?

found a bug?

```
chroot = VirtualEnvironment()
try:
    chroot.install(package)
    chroot.remove(package)
    chroot.check()
except Exception:
    logging.error('FAIL')
else:
    logging.info('PASS')
```

sudo piuparts foo.deb

```
OmO.Os DEBUG: Starting command: ['dpkg', '--info',
'liwc_1.20-5_amd64.deb']
0m0.0s DUMP:
  new debian package, version 2.0.
   size 16566 bytes: control archive= 460 bytes.
       494 bytes, 13 lines control
  Package: liwc
  Version: 1.20-5
  Section: devel
  Priority: optional
  Architecture: amd64
  Depends: libc6 (>= 2.5-Oubuntu1)
   Installed-Size: 124
  Maintainer: Ubuntu MOTU Developers <ubuntu-motu@lists.ubuntu.com>
  Original-Maintainer: Antti-Juhani Kaijanaho <ajk@debian.org>
  Description: Tools for manipulating C source code
   Includes programs for converting C++ comments to C comments,
    removing C comments, print out string literals, and converting
   characters to trigraphs and trigraphs to characters.
OmO.Os DEBUG: Command ok: ['dpkg', '--info', 'liwc_1.20-5_amd64.deb']
OmO.Os DEBUG: Created temporary directory /tmp/tmpsgAEyg
Omo.os DEBUG: Setting up minimal chroot for jaunty at /tmp/tmpsqAEyq.
```

+ tens to hundreds kB more

1m7.0s INFO: PASS: All tests.

sudo piuparts -p foo.deb

1m7.3s ERROR: Broken symlinks:

sudo piuparts -p \
 --no-symlinks foo.deb

http://piuparts.debian.org



debian Quality Assurance

POLICY IS YOUR FRIEND. TRUST THE POLICY. LOVE THE POLICY. OBEY THE POLICY.

General information

Overview

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Bugs / ToDo

Documentation

piuparts README

piuparts.debian.org / piuparts.cs.helsinki.fi

piuparts is a tool for testing that .deb packages can be installed, upgraded, and removed without problems. The name, a variant of something suggested by Tollef Fog Heen, is short for "package installation, upgrading and removal testing suite".

It does this by creating a minimal

piatti.debian.org
 fast AMD64 machine
 donated from HP
 hosted at Uni HEL
 restricted machine access

up as it is since spring 2009 piuparts master/slave setup

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maintained by me only :-(

mostly piuparts-report.py & some bash scripts

```
reports via mail
 (to h01ger + luk)
reports on the web
 by source
 by maintainer
PTS integration
BTS usertag
```

FAQ - use it!





in http://piuparts.debian.org/sid/maintainer/l/liw@iki.fi.html

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General information					
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Available reports					
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sid					
squeeze					

by source package

fail:	0					
unknown:	0					
pass:	3	python-coverage piuparts enemies-of-carlotta				
python-coverage in sid						
Source:	python- coverage	piuparts summary:	举	Version:	2.85-1	
Maintainer:	ainer: Lars Wirzenius <liw@iki.fi></liw@iki.fi>					
Uploaders:	Ben Finney <ben+debian@benfinney.id.au></ben+debian@benfinney.id.au>					
Binary:	python-	piuparts-		Version:	2.85-1	
	coverage	result:	tested 2.80-2, 2.85-1	₽		
piuparts in sid						
Source:	piuparts	piuparts summary:	举	Version:	0.35	
Maintainer	piuparts developers team <piuparts- devel@lists.alioth.debian.org></piuparts- 					
Uploaders:	Lars Wirzenius liw@iki.fi>, Bill Allombert <ballombe@debian.org>, Ian Jackson <iwj@debian.org>, John Wright <jsw@debian.org>, Ana Beatriz Guerrero Lopez <ana@debian.org> Holger Levsen <boliger@debian.org></boliger@debian.org></ana@debian.org></jsw@debian.org></iwj@debian.org></ballombe@debian.org>					

```
sid / squeeze / lenny2squeeze
```

```
~1000-3000 piuparts tests/day (with chroot tarballs...)
```

in sid:

- ~21700 successfully tested
- ~400 failures
- ~3700 failed dependencies

```
sid / squeeze / lenny2squeeze
```

```
~1000-3000 piuparts tests/day (with chroot tarballs...)
```

in squeeze:

- ~25074 successfully tested
- ~139 failures
- ~343 failed dependencies

Keeping it running is not much work.

Dealing with the results and the resulting discussions is.

PTS integration helps, but...

filing bugs and dealing with them is real work:

Status
45 Outstanding
5 Pending Upload
228 Resolved

Severity

3 Grave functionality bugs 197 Serious (policy violations or makes 66 Important bugs 12 Normal bugs

ToDo

file more bugs. 600 of them. aid bug reporting circular depends easy approach: whitelist alternative depends detect more errors multiarch rewrite some bash in python ease master/slave setup even more

final words:

piuparts is an extremely nitpicky S.O.B. and really, really wants to find something wrong in your package.

Every time it does, liw giggles.

YOU DO NO WANT LIW TO GIGGLE!

piuparts is an extremely nitpicky S.O.B. and really, really wants to find something wrong in your package.

Every time it does, liw+h01ger giggle.

YOU DO NO WANT LIW TO GIGGLE! YOU NEITHER WANT H01GER TO GIGGLE! http://piuparts.debian.org debian-qa@lists.debian.org

Thank you for using piuparts and improving Debian!

Policy is your friend. Trust the Policy. Love the Policy. Obey the Policy.