# 关于python在yarn上运行时依赖环境的解决方案(R\Tensoflow也可借鉴)

2018年11月15日 9:57

参考文档	https://www.jianshu.com/p/df0a189ff28b
	https://www.jianshu.com/p/9a144c508059
	https://blog.csdn.net/u012328476/article/details/78894669?utm_source=blogxgwz6
	https://blog.csdn.net/hjh00/article/details/64439268
问题解决	$\underline{https://stackoverflow.com/questions/30518362/how-do-i-set-the-drivers-python-version-in-spark}$

## 一、目的

为了pyspark能够直接提交到没有对应python环境的yarn集群上运行,以及对之后的python算子、R算子、TensorFlow、notebook 都有一定的借鉴意义。

#### 二、安装anaconda环境

为了不对运行环境造成影响, 之前我们将anaconda环境安装在了docker里, 版本为Anaconda3-5.2.0-Linux-x86\_64,对应的python版本为3.6

不建议按照文档中的采用anaconda3创建虚拟环境的方式,有许多python包需要依赖系统环境,特别是配置TensorFlow,如果需要无网解决yum依赖包的问题,这个问题就变 得很棘手。

在docker里安装好python的所有依赖包之后,即可对anaconda3环境进行打包,命令:

```
zip -r -9 -q python.zip ./anaconda3
```

由于安装的依赖包数量较多,打包后的大小后2.7G,原生anaconda3打包后一般为300M左右

将打包后python.zip从docker中拿到本地主机

docker cp 24e4ba59dde6:/root/python.zip .

上传至HDFS上

hdfs dfs -put python.zip /tmp/spark\_market

至此Python环境准备完毕

# 三、准备Spark环境

这里为了验证yarn确实调用了HDFS上的python环境, 我们这里在docker外面上传解压spark-2.3.0-bin-hadoop2.7,

查看docker外的python环境:

```
Python 2.7.5 (default, Nov 20 2015, 02:00:19)
[GCC 4.8.5 20150623 (Red Hat 4.8.5-4)] on linux2
Type "help", "copyright", "credits" or "license" for more information.
>>> []
```

修改spark的配置文件:

spark-2.3.0-bin-hadoop2.7/conf/spark-env.sh

HADOOP\_CONF\_DIR=/etc/hadoop/conf # hadoop配置

YARN\_CONF\_DIR=/etc/hadoop/conf.cloudera.yarn/ # yarn配置

export SPARK\_HOME=/root/spark-2.3.0-bin-hadoop2.7 # spark配置

spark-2.3.0-bin-hadoop2.7/conf/spark-defaults.conf

spark.yarn.appMasterEnv.PYSPARK\_DRIVER\_PYTHON ANACONDA/anaconda3/bin/python3 # python.zip包解压后python所在的位置需要指定

将spark上传至hdfs(若不上传也可, yarn会读取本地的spark环境打包上传至hdfs临时目录再进行分发, 但是会消耗一定的时间) hdfs dfs -put spark-2.3.0-bin-hadoop2.7 /tmp/spark-2.3.0-bin-hadoop2.7

至此spark环境准备完毕

### 四、测试

进入spark-2.3.0-bin-hadoop2.7目录执行

./bin/spark-submit --master yarn --deploy-mode cluster --num-executors 2 --executor-cores 3 --executor-memory 2G /root/spark-2.3.0-bin-hadoop2.7/examples/src/main/python/mllib/correlations\_example.py

这里需要调整 --num-executors --executor-cores 以及查看yarn上的任务工作状态, 如果yarn上任务较多或者申请的资源较多,可以会使任务一直处于ACCEPT状态

```
| 2001.11.5 14.21.5 1870 | Classic 54 - Application report for application | 54441650709 2020 (ctate: NUMBRING) |
2009.11.5 14.22.10 NPO | Classic 54 - Application report for application | 54441650709 2020 (ctate: NUMBRING) |
2009.11.5 14.22.10 NPO | Classic 54 - Application report for application | 54441650709 | 2020 (ctate: NUMBRING) |
2009.11.5 14.22.10 NPO | Classic 54 - Application report for application | 54441650709 | 2020 (ctate: NUMBRING) |
2009.11.5 14.22.20 NPO | Classic 54 - Application report for application | 54441650709 | 2020 (ctate: NUMBRING) |
2009.11.5 14.22.20 NPO | Classic 54 - Application report for application | 54441650709 | 2020 (ctate: NUMBRING) |
2009.11.5 14.22.20 NPO | Classic 54 - Application report for application | 54441650709 | 2020 (ctate: NUMBRING) |
2009.11.5 14.22.20 NPO | Classic 54 - Application report for application | 54441650709 | 2020 (ctate: NUMBRING) |
2009.11.5 14.22.20 NPO | Classic 54 - Application report for application | 54441650709 | 2020 (ctate: NUMBRING) |
2009.11.5 14.22.20 NPO | Classic 54 - Application | 54441650709 | 2020 (ctate: NUMBRING) |
2009.11.5 14.22.20 NPO | Classic 54 - Application | 54441650709 | 2020 (ctate: NUMBRING) |
2009.11.5 14.22.20 NPO | Classic 54 - Application | 54441650709 | 2020 (ctate: NUMBRING) |
2009.11.5 14.22.20 NPO | Classic 54 - Application | 54441650709 | 2020 |
2009.11.5 14.22.20 NPO | Substituted | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 |
```

可以成功执行

为了提高session的启动速度,程序里在配置SparkConf时可以指定<mark>"spark.yarn.jars":"hdfs://cdh01:8020/tmp/spark-2.3.0-bin-hadoop2.7/jars/\*"</mark>,这样yarn就不会每次启动时都把本地文件重新上传至hdfs一份

# 五、问题解决

#### 上述测试代码较为简单,实际使用过程中我们发现如果任务较大,yarn调用到不同work时会报以下错误:

```
the upde the Collimon and the Collimon a
                                            CONTROL CONTRO
```

说明在调用python环境时, worker并没有使用hdfs上的, 而是使用了系统的默认python

直接在程序里设置PYTHON的系统环境变量即可

os.environ["PYSPARK\_PYTHON"]="ANACONDA/anaconda3/bin/python3"

os.environ["PYSPARK\_DRIVER\_PYTHON"]="ANACONDA/anaconda3/bin/python3"

#### 附录、

#### 依赖包:

```
Build Channel
# Name
               Version
_ipyw_jlab_nb_ext_conf 0.1.0
                                 py36he11e457 0
                        py36h306e16b_0
alabaster
               0.7.10
anaconda
                5.2.0
                              py36 3
anaconda-client
                1.6.14
                                py36_0
anaconda-navigator 1.8.7
                                  py36_0
                  0.8.2
                              py36h44fb852 0
anaconda-project
                0.24.0
asn1crypto
                               py36_0
              1.6.3
astroid
                            py36_0
               3.0.2
                         py36h3010b51_1
astropy
              18.1.0
attrs
                           py36_0
babel
               2.5.3
                            py36_0
                             py36_0
backcall
               0.1.0
backports
                          py36hfa02d7e_1
                1.0
backports.shutil_get_terminal_size 1.0.0
                                        py36hfea85ff_2
beautifulsoup4
                  4.6.0
                            py36h49b8c8c_1
bitarray
               0.8.1
                         py36h14c3975_1
bkcharts
               0.2
                         py36h735825a_0
blas
             1.0
                            mkl
                         py36h4e06776_0
blaze
              0.11.3
bleach
               2.1.3
                             py36_0
blosc
              1.14.3
                           hdbcaa40_0
bokeh
               0.12.16
                              py36_0
boto
              2.48.0
                         py36h6e4cd66_1
bottleneck
                1.2.1
                          py36haac1ea0_0
bzip2
              1.0.6
                          h14c3975_5
ca-certificates
                2018.03.07
                                    n
cairo
              1.14.12
                           h7636065_2
                       py36_0
py36h9745a5d_0
certifi
              2018.4.16
cffi
             1 11 5
chardet
               3.0.4
                         py36h0f667ec_1
                       py36h5253387_0
             6.7
click
                0.5.3
                              py36_0
cloudpickle
                        py36h7e57e65 1
clvent
              122
colorama
                0.3.9
                          py36h489cec4_0
                             py36_0
conda
               4.5.9
                               py36_0
conda-build
                 3.10.5
                 2.6.0
                             h36134e3 1
conda-env
conda-verify
                 2.0.0
                           py36h98955d8_0
contextlib2
                0.5.5
                           py36h6c84a62_0
                            py36h14c3975_0
                 2.2.2
cryptography
               1.0.3
cssselect
                              <qiq>
                          h84994c4_0
curl
             7.60.0
              0.10.0
                         py36h93f1223_0
cycler
cython
               0.28.2
                          py36h14c3975_0
cytoolz
               0.9.0.1
                         py36h14c3975_0
dask
              0.17.5
                            py36_0
dask-core
                0.17.5
                              py36_0
                0.5.4
                           py36h3ad6b5c_0
datashape
                           h714fa37_1
              1.13.2
dbus
                4.3.0
                              py36_0
decorator
distributed
                1.21.8
                              py36_0
docopt
               0.6.2
                             py36_0
docutils
               0.14
                         py36hb0f60f5_0
               0.2.0
dukpy
                             <pip>
entrypoints
                0.2.3
                           py36h1aec115_2
et_xmlfile
                1.0.1
                          py36hd6bccc3_0
expat
               2.2.5
                           he0dffb1_0
fastavro
               0.19.7
                          py36h14c3975_0
fastcache
                1.0.2
                          py36h14c3975_2
filelock
              3.0.4
                            py36_0
flask
             1.0.2
                           py36_1
flask-cors
               3.0.4
                             py36_0
fontconfig
                2.12.6
                            h49f89f6_0
freetype
               2.8
                           hab7d2ae_1
              0.16.0
future
                              <pip>
                               haa9412d_0
get_terminal_size
                  1.0.0
               130
                         py36h14c3975_0
gevent
glib
             2.56.1
                          h000015b 0
```

glob2		
	0.6	py36he249c77_0
gmp	6.1.2	h6c8ec71_1
gmpy2	2.0.8	py36hc8893dd_2
graphite2	1.3.11	h16798f4_2
greenlet gst-plugins-base	0.4.13 e 1.14.0	py36h14c3975_0 hbbd80ab 1
gst-plugilis-basi	1.14.0	hb453b48 1
h5py	2.7.1	py36ha1f6525_2
harfbuzz	1.7.6	h5f0a787_1
hdf5	1.10.2	hba1933b_1
heapdict	1.0.0	py36_2
html5lib	1.0.1	py36h2f9c1c0_0
icu	58.2	h9c2bf20 1
idna	2.6	py36h82fb2a8 1
imageio	2.3.0	py36_0
imagesize	1.0.0	py36_0
intel-openmp	2018.0	0.0 8
ipykernel	4.8.2	py36_0
ipython	6.4.0	py36_0
ipython_genuti		py36hb52b0d5_0
ipywidgets	7.2.1	py36_0
isort	4.3.4	py36_0
itsdangerous	0.24	py36h93cc618_1
javascripthon	0.10	<pi><pi><pi></pi></pi></pi>
jbig	2.1	hdba287a_0
jdcal	1.4	py36_0
jedi ::::::::::::::::::::::::::::::::::::	0.12.0 2.10	py36_1
jinja2	2.10 9b	py36ha16c418_0 h024ee3a 2
jpeg jsonschema	2.6.0	py36h006f8b5 0
jupyter	1.0.0	py36_4
jupyter-echarts		
jupyter_client	5.2.3	py36 0
jupyter_console		py36he59e554_1
jupyter_core	4.4.0	py36h7c827e3_0
jupyterlab	0.32.1	py36 0
jupyterlab laur		
kiwisolver	1.0.1	py36h764f252_0
krb5	1.16.1	hc83ff2d_6
lazy-object-pro	xy 1.3.1	py36h10fcdad_0
libcurl	7.60.0	h1ad7b7a_0
libedit	3.1.201703	329 h6b74fdf_2
libffi	3.2.1	hd88cf55_4
libgcc-ng	7.2.0	hdf63c60_3
libgfortran-ng	7.2.0	hdf63c60_3
libpng	1.6.34	hb9fc6fc_0
libsodium	1.0.16	h1bed415_0
libssh2	1.8.0	h9cfc8f7_4
libstdcxx-ng	7.2.0	hdf63c60_3
libtiff	4.0.9	he85c1e1_1
libtool libxcb	2.4.6 1.13	h544aabb_3
		h1bed415_1
libxml2 libxslt	2.9.8 1.1.32	h26e45te_1 h1312cb7_0
llvmlite	0.23.1	py36hdbcaa40 0
	0.23.1	pysonubcaa-to_o
	0.02	<nin></nin>
lml locket	0.0.2	<pre><pip></pip></pre> <pre><pre>pv36h787c0ad 1</pre></pre>
locket	0.2.0	py36h787c0ad_1
locket lxml lzo		py36h787c0ad_1 py36h23eabaa_0
locket Ixml Izo	0.2.0 4.2.1	py36h787c0ad_1
locket lxml	0.2.0 4.2.1 2.10	py36h787c0ad_1 py36h23eabaa_0 h49e0be7_2 <pip></pip>
locket Ixml Izo macropy3 markupsafe	0.2.0 4.2.1 2.10 1.1.0b2	py36h787c0ad_1 py36h23eabaa_0 h49e0be7_2 <pip> py36hd9260cd_1</pip>
locket Ixml Izo macropy3	0.2.0 4.2.1 2.10 1.1.0b2 1.0	py36h787c0ad_1 py36h23eabaa_0 h49e0be7_2 <pip></pip>
locket Ixml Izo macropy3 markupsafe matplotlib	0.2.0 4.2.1 2.10 1.1.0b2 1.0 2.2.2	py36h787c0ad_1 py36h23eabaa_0 h49e0be7_2 <pip> py36h09260cd_1 py36h0e671d2_1</pip>
locket Ixml Izo macropy3 markupsafe matplotlib mccabe	0.2.0 4.2.1 2.10 1.1.0b2 1.0 2.2.2 0.6.1	py36h787c0ad_1 py36h23eabaa_0 h49e0be7_2
locket Ixml Izo macropy3 markupsafe matplotlib mccabe mistune	0.2.0 4.2.1 2.10 1.1.0b2 1.0 2.2.2 0.6.1 0.8.3	py36h787c0ad_1 py36h23eabaa_0 h49e0be7_2
locket Ixml Izo macropy3 markupsafe matplotlib mccabe mistune mkl	0.2.0 4.2.1 2.10 1.1.0b2 1.0 2.2.2 0.6.1 0.8.3 2018.0.2	py36h787c0ad_1 py36h23eabaa_0 h49e0be7_2
locket  xml  zo  macropy3  markupsafe  matplotlib  mccabe  mistune  mkl  mkl-service  mkl-service  mkl_random	0.2.0 4.2.1 2.10 1.1.0b2 1.0 2.2.2 0.6.1 0.8.3 2018.0.2 1.1.2 1.0.1	py36h787c0ad_1 py36h23eabaa_0 h49e0be7_2
locket  xml  zo  macropy3  markupsafe  matplotlib  mccabe  mistune  mkl  mkl-service  mkl_fft	0.2.0 4.2.1 2.10 1.1.0b2 1.0 2.2.2 0.6.1 0.8.3 2018.0.2 1.1.2 1.0.1	py36h787c0ad_1 py36h23eabaa_0 h49e0be7_2
locket lxml lzo macropy3 markupsafe matplotlib mccabe mistune mkl mkl-service mkl_fft mkl_random more-itertools mpc	0.2.0 4.2.1 2.10 1.1.0b2 1.0 2.2.2 0.6.1 0.8.3 2018.0.2 1.1.2 1.0.1 1.0.1 4.1.0 1.0.3	py36h787c0ad_1 py36h23eabaa_0 h49e0be7_2
locket lxml lzo macropy3 markupsafe matplotlib mccabe mistune mkl mkl-service mkl_fft mkl_random more-itertools mpc mpfr	0.2.0 4.2.1 2.10 1.1.0b2 1.0 2.2.2 0.6.1 0.8.3 2018.0.2 1.1.2 1.0.1 1.0.1 4.1.0 1.0.3 3.1.5	py36h787c0ad_1 py36h23eabaa_0 h49e0be7_2
locket lxml lzo macropy3 markupsafe matplotlib mccabe mistune mkl mkl-service mkl_fft mkl_random more-itertools mpc mpfr	0.2.0 4.2.1 2.10 1.1.0b2 1.0 2.2.2 0.6.1 0.8.3 2018.0.2 1.1.2 1.0.1 4.1.0 1.0.3 3.1.5 1.0.0	py36h787c0ad_1 py36h23eabaa_0 h49e0be7_2
locket   xml   lzo   macropy3   markupsafe   matplotlib   mccabe   mistune   mkl   service   mkl   fft   mkl   random   more-itertools   mpc   mpmath   msgpack-pytho	0.2.0 4.2.1 2.10 1.1.0b2 1.0 2.2.2 0.6.1 0.8.3 2018.0.2 1.1.2 1.0.1 4.1.0 1.0.3 3.1.5 1.0.0 n 0.5.6	py36h787c0ad_1 py36h23eabaa_0 h49e0be7_2
locket lxml lzo macropy3 markupsafe matplotlib mccabe mistune mkl service mkl_fft mkl_random more-itertools mpc mpfr mpmath msgpack-pytho multipledispatc	0.2.0 4.2.1 2.10 1.1.0b2 1.0 2.2.2 0.6.1 0.8.3 2018.0.2 1.0.1 1.0.1 4.1.0 1.0.3 3.1.5 1.0.0 n 0.5.6 th 0.5.0	py36h787c0ad_1 py36h23eabaa_0 h49e0be7_2
locket lxml lzo macropy3 markupsafe matplotlib mccabe mistune mkl mkl-service mkl_fft mkl_random more-itertools mpc mpfr mpmath msgpack-pytho multipledispatc navigator-upda	0.2.0 4.2.1 2.10 1.1.0b2 1.0 2.2.2 0.6.1 0.8.3 2018.0.2 1.0.1 1.0.1 4.1.0 1.0.3 3.1.5 1.0.0 n 0.5.6 ch 0.5.0 ter 0.2.1	py36h787c0ad_1 py36h23eabaa_0 h49e0be7_2
locket lxml lzo macropy3 markupsafe matplotlib mccabe mistune mkl mkl-service mkl_fft mkl_random more-itertools mpc mpfr mpmath msgpack-pytho multipledispatc navigator-upda nbconvert	0.2.0 4.2.1 2.10 1.1.0b2 1.0 2.2.2 0.6.1 0.8.3 2018.0.2 1.0.1 1.0.1 4.1.0 1.0.3 3.1.5 1.0.0 th 0.5.0 ter 0.2.1 5.3.1	py36h787c0ad_1 py36h23eabaa_0 h49e0be7_2
locket lxml lzo macropy3 markupsafe matplotlib mccabe mistune mkl mkl-service mkl_fft mkl_random more-itertools mpc mpfr mpmath msgpack-pytho multipledispato navigator-upda nbconvert nbformat	0.2.0 4.2.1 2.10 1.1.0b2 1.0 2.2.2 0.6.1 0.8.3 2018.0.2 1.1.2 1.0.1 4.1.0 1.0.3 3.1.5 1.0.0 n 0.5.6 ch 0.5.0 ter 0.2.1 5.3.1 4.4.0	py36h787c0ad_1 py36h23eabaa_0 h49e0be7_2
locket  xml   Izo   macropy3   markupsafe   matplotlib   mccabe   mistune   mkl   mkl   service   mkl_fft   mkl_random   more-itertools   mpc   mpmath   msgpack-pytho   multipledispatc   navigator-upda   nbconvert   nbformat   ncurses	0.2.0 4.2.1 2.10 1.1.0b2 1.0 2.2.2 0.6.1 0.8.3 2018.0.2 1.1.2 1.0.1 4.1.0 1.0.3 3.1.5 1.0.0 n 0.5.6 th 0.5.0 ter 0.2.1 5.3.1 4.4.0 6.1	py36h787c0ad_1 py36h23eabaa_0 h49e0be7_2
locket  xml   lzo   macropy3   markupsafe   matplotlib   mccabe   mistune   mkl   service   mkl   ft   mkl   random   more-itertools   mpc   mpfr   mpmath   msgpack-pytho   multipledispatch   navigator-upda   nbconvert   nbformat   ncurses   networkx	0.2.0 4.2.1 2.10 1.1.0b2 1.0 2.2.2 0.6.1 0.8.3 2018.0.2 1.0.1 4.1.0 1.0.3 3.1.5 1.0.0 n 0.5.6 th 0.5.0 ter 0.2.1 4.4.0 6.1 2.1	py36h787c0ad_1 py36h23eabaa_0 h49e0be7_2
locket lxml lzo macropy3 markupsafe matplotlib mccabe mistune mkl service mkl_fft mkl_random more-itertools mpc mpfr mpmath msgpack-pytho multipledispatc navigator-upda nbconvert nbformat ncurses networkx nltk	0.2.0 4.2.1 2.10 1.1.0b2 1.0 2.2.2 0.6.1 0.8.3 2018.0.2 1.0.1 1.0.1 4.1.0 1.0.3 3.1.5 1.0.0 n 0.5.6 th 0.5.0 ter 0.2.1 4.4.0 6.1 2.1 3.3.0	py36h787c0ad_1 py36h23eabaa_0 h49e0be7_2
locket lxml lzo macropy3 markupsafe matplotlib mccabe mistune mkl mkl-service mkl_fft mkl_random more-itertools mpc mpfr mpmath msgpack-pytho multipledispatc navigator-upda nbconvert nbformat ncurses networkx nltk nose	0.2.0 4.2.1 2.10 1.1.0b2 1.0 2.2.2 0.6.1 0.8.3 2018.0.2 1.0.1 4.1.0 1.0.3 3.1.5 1.0.0 n 0.5.6 th 0.5.0 ter 0.2.1 3.3.0 1.3.7	py36h787c0ad_1 py36h23eabaa_0 h49e0be7_2
locket lxml lzo macropy3 markupsafe matplotlib mccabe mistune mkl mkl-service mkl_fft mkl_random more-itertools mpc mpfr mpmath msgpack-pytho multipledispato navigator-upda nbconvert nbformat ncurses networkx nltk nose notebook	0.2.0 4.2.1 2.10 1.1.0b2 1.0 2.2.2 0.6.1 0.8.3 2018.0.2 1.1.2 1.0.1 4.1.0 1.0.3 3.1.5 1.0.0 n 0.5.6 th 0.5.0 6.1 2.1 3.3.0 1.3.7 5.5.0	py36h787c0ad_1 py36h23eabaa_0 h49e0be7_2
locket Ixml Izo macropy3 markupsafe matplotlib mccabe mistune mkl mkl-service mkl_fft mkl_random more-itertools mpc mpfr mpmath msgpack-pytho multipledispatc navigator-upda nbconvert nbformat ncurses networkx nltk nose notebook numba	0.2.0 4.2.1 2.10 1.1.0b2 1.0 2.2.2 0.6.1 0.8.3 2018.0.2 1.1.2 1.0.1 4.1.0 1.0.3 3.1.5 1.0.0 n 0.5.6 th 0.5.0 ter 0.2.1 5.3.1 4.4.0 6.1 2.1 3.3.0 1.3.7 5.5.0 0.38.0	py36h787c0ad_1 py36h23eabaa_0 h49e0be7_2
locket  xml   lzo   macropy3   markupsafe   matplotlib   mccabe   mistune   mkl   service   mkl-service   mkl-random   more-itertools   mpc   mpfr   mpmath   msgpack-pytho   multipledispatch   navigator-upda   mbconvert   nbformat   ncurses   networkx   nltk   nose   notebook   numba   numexpr	0.2.0 4.2.1 2.10 1.1.0b2 1.0 2.2.2 0.6.1 0.8.3 2018.0.2 1.1.2 1.0.1 4.1.0 1.0.3 3.1.5 1.0.0 n 0.5.6 th 0.5.0 6.1 2.1 3.3.0 1.3.7 5.5.0	py36h787c0ad_1 py36h23eabaa_0 h49e0be7_2
locket lxml lzo macropy3 markupsafe matplotlib mccabe mistune mkl mkl-service mkl_fft mkl_random more-itertools mpc mpfr mpmath msgpack-pytho multipledispatc navigator-upda nbconvert nbformat ncurses networkx nltk nose notebook numba numexpr numpy	0.2.0 4.2.1 2.10 1.1.0b2 1.0 2.2.2 0.6.1 0.8.3 2018.0.2 1.0.1 4.1.0 1.0.3 3.1.5 1.0.0 n 0.5.6 th 0.5.0 ter 0.2.1 4.4.0 6.1 2.1 3.3.0 1.3.7 5.5.0 0.38.0 2.6.5 1.14.3	py36h787c0ad_1 py36h23eabaa_0 h49e0be7_2
locket lxml lzo macropy3 markupsafe matplotlib mccabe mistune mkl mkl-service mkl_fft mkl_random more-itertools mpc mpfr mpmath msgpack-pytho multipledispatc navigator-upda nbconvert nbformat ncurses networkx nltk nose notebook numba numexpr numpy numpy-base	0.2.0 4.2.1 2.10 1.1.0b2 1.0 2.2.2 0.6.1 0.8.3 2018.0.2 1.0.1 4.1.0 1.0.3 3.1.5 1.0.0 n 0.5.6 th 0.5.0 ter 0.2.1 5.3.1 4.4.0 6.1 2.1 3.3.0 1.3.7 5.5.0 0.38.0 2.6.5	py36h787c0ad_1 py36h23eabaa_0 h49e0be7_2
locket lxml lzo macropy3 markupsafe matplotlib mccabe mistune mkl mkl-service mkl_fft mkl_random more-itertools mpc mpfr mpmath msgpack-pytho multipledispatc navigator-upda nbconvert nbformat ncurses networkx nltk nose notebook numba numexpr numpy	0.2.0 4.2.1 2.10 1.1.0b2 1.0 2.2.2 0.6.1 0.8.3 2018.0.2 1.1.2 1.0.1 4.1.0 1.0.3 3.1.5 1.0.0 n 0.5.6 ch 0.5.0 6.1 2.1 3.3.0 1.3.7 5.5.0 0.38.0 2.6.5 1.14.3 1.14.3 0.8.0	py36h787c0ad_1 py36h23eabaa_0 h49e0be7_2
locket lxml lzo macropy3 markupsafe matplotlib mccabe mistune mkl mkl-service mkl_fft mkl_random more-itertools mpc mpfr mpmath msgpack-pytho multipledispatc navigator-upda nbconvert nbformat ncurses networkx nltk nose notebook numba numexpr numpy numpy-base numpydoc	0.2.0 4.2.1 2.10 1.1.0b2 1.0 2.2.2 0.6.1 0.8.3 2018.0.2 1.0.1 1.0.1 4.1.0 1.0.3 3.1.5 1.0.0 n 0.5.6 th 0.5.0 ter 0.2.1 3.3.0 1.3.7 5.5.0 0.38.0 2.6.5 1.14.3 1.14.3	py36h787c0ad_1 py36h23eabaa_0 h49e0be7_2
locket lxml lzo macropy3 markupsafe matplotlib mccabe mistune mkl mkl-service mkl_fft mkl_random more-itertools mpc mpfr mpmath msgpack-pytho multipledispatc navigator-upda nbconvert nbformat ncurses networkx nltk nose notebook numba numexpr numpy-base numpydoc odo	0.2.0 4.2.1 2.10 1.1.0b2 1.0 2.2.2 0.6.1 0.8.3 2018.0.2 1.1.2 1.0.1 1.0.3 3.1.5 1.0.0 n 0.5.6 th 0.5.0 ter 0.2.1 5.3.1 4.4.0 6.1 2.1 3.3.0 1.3.7 5.5.0 0.38.0 2.6.5 1.14.3 1.14.3 0.8.0 0.5.1	py36h787c0ad_1 py36h23eabaa_0 h49e0be7_2
locket lxml lzo macropy3 markupsafe matplotlib mccabe mistune mkl mkl-service mkl_fft mkl_random more-itertools mpc mpfr mpmath msgpack-pytho multipledispatc navigator-upda nbconvert nbformat ncurses networkx nltk nose notebook numba numexpr numpy numpy-base numpydoc odo olefile	0.2.0 4.2.1 2.10 1.1.0b2 1.0 2.2.2 0.6.1 0.8.3 2018.0.2 1.0.1 4.1.0 1.0.3 3.1.5 1.0.0 n 0.5.6 th 0.5.0 ter 0.2.1 5.3.1 4.4.0 6.1 2.1 3.3.0 1.3.7 5.5.0 0.38.0 2.6.5 1.14.3 0.8.0 0.5.1 0.45.1	py36h787c0ad_1 py36h23eabaa_0 h49e0be7_2
locket lxml lzo macropy3 markupsafe matplotlib mccabe mistune mkl mkl-service mkl-fft mkl_random more-itertools mpc mpfr mpmath msgpack-pytho multipledispatc navigator-upda nbconvert nbformat ncurses networkx nltk nose notebook numba numexpr numpy numpy-base numpydoc odo olefile openpyxl	0.2.0 4.2.1 2.10 1.1.0b2 1.0 2.2.2 0.6.1 0.8.3 2018.0.2 1.0.1 4.1.0 1.0.3 3.1.5 1.0.0 n 0.5.6 th 0.5.0 ter 0.2.1 5.3.1 4.4.0 6.1 2.1 3.3.0 1.3.7 5.5.0 0.38.0 2.6.5 1.14.3 0.8.0 0.5.1 0.45.1 2.5.3	py36h787c0ad_1 py36h23eabaa_0 h49e0be7_2

pandas	0.23.0	py36h637b7d7_0
pandoc	1.19.2.1	hea2e7c5_1
pandocfilters	1.4.2	py36ha6701b7_1
pango	1.41.0	hd475d92 0
parso	0.2.0	py36_0
partd	0.3.8	py36h36fd896 0
•	0.5.8	
patchelf		hf79760b_2
path.py	11.0.1	py36_0
pathlib2	2.3.2	py36_0
patsy	0.5.0	py36_0
pcre	8.42	h439df22_0
pep8	1.7.1	py36_0
pexpect	4.5.0	py36 0
pickleshare	0.7.4	py36h63277f8 0
pillow	5.1.0	py36h3deb7b8 0
•		-
pip	10.0.1	py36_0
pixman	0.34.0	hceecf20_3
pkginfo	1.4.2	py36_1
pluggy	0.6.0	py36hb689045_0
ply	3.11	py36_0
prompt_toolki	t 1.0.15	py36h17d85b1_0
psutil	5.4.5	py36h14c3975_0
ptyprocess	0.5.2	py36h69acd42 0
ру	1.5.3	py36_0
py4j	0.10.7	py36_0
	2.4.0	
pycodestyle		py36_0
pycosat	0.6.3	py36h0a5515d_0
pycparser	2.18	py36hf9f622e_1
pycrypto	2.6.1	py36h14c3975_8
pycurl	7.43.0.1	py36hb7f436b_0
pyDes	2.0.1	<pip></pip>
pyecharts	0.5.8	<pip></pip>
pyecharts-java	scripthon 0	0.6 <pip></pip>
pyecharts-jupy		
pyflakes	1.6.0	py36h7bd6a15_0
	2.2.0	
pygments		py36h0d3125c_0
PyHDFS	0.2.1	<pip></pip>
PyHive	0.6.0	<pip></pip>
pyhocon	0.3.44	<pip></pip>
pykerberos	1.1.14	py36h84109d8_2
pylint	1.8.4	py36_0
pyodbc	4.0.23	py36hf484d3e_0
pyopenssl	18.0.0	py36_0
pyparsing	2.2.0	py36hee85983_1
pyqt	5.9.2	py36h751905a_0
pyquery	1.4.0	<pip></pip>
pysocks	1.6.8	py36 0
pytables	3.4.3	py36h02b9ad4 2
pytest	3.5.1	py36 0
pytest pytest-arraydi		py36_0 py36_0
pytest-arraydi	ff 0.2	py36_0
pytest-arraydii pytest-astropy	0.2 0.3.0	py36_0 py36_0
pytest-arraydii pytest-astropy pytest-doctest	ff 0.2 0.3.0 plus 0.1.3	py36_0 py36_0 py36_0
pytest-arraydii pytest-astropy pytest-doctest pytest-openfile	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0	py36_0 py36_0 py36_0 py36_0
pytest-arraydir pytest-astropy pytest-doctest pytest-openfile pytest-remote	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2.	py36_0 py36_0 py36_0 py36_0 py36_0 1 py36_0
pytest-arraydii pytest-astropy pytest-doctest pytest-openfile pytest-remote python	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2. 3.6.5	py36_0 py36_0 py36_0 py36_0 1 py36_0 hc3d631a_2
pytest-arraydii pytest-astropy pytest-doctest pytest-openfile pytest-remote python python-dateut	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2. 3.6.5 il 2.7.3	py36_0 py36_0 s py36_0 py36_0 1 py36_0 hc3d631a_2 py36_0
pytest-arraydii pytest-astropy pytest-doctest pytest-openfile pytest-remote python python-dateut python-hdfs	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2. 3.6.5 il 2.7.3 2.1.0	py36_0 py36_0 s py36_0 py36_0 1 py36_0 hc3d631a_2 py36_0 py36_0
pytest-arraydii pytest-astropy pytest-doctest pytest-openfili pytest-remote python python-dateut python-hdfs pytz	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2. 3.6.5 il 2.7.3 2.1.0 2018.4	py36_0 py36_0 py36_0 py36_0 1 py36_0 hc3d631a_2 py36_0 py36_0 py36_0
pytest-arraydii pytest-astropy pytest-doctest pytest-openfile pytest-remote python python-dateut python-hdfs	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2. 3.6.5 il 2.7.3 2.1.0 2018.4 0.5.2	py36_0 py36_0 s py36_0 py36_0 1 py36_0 hc3d631a_2 py36_0 py36_0
pytest-arraydii pytest-astropy pytest-doctest pytest-openfili pytest-remote python python-dateut python-hdfs pytz	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2. 3.6.5 il 2.7.3 2.1.0 2018.4	py36_0 py36_0 py36_0 py36_0 1 py36_0 hc3d631a_2 py36_0 py36_0 py36_0
pytest-arraydii pytest-astropy pytest-doctest pytest-openfil pytest-remote python-dateut python-hdfs pytz pywavelets	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2. 3.6.5 il 2.7.3 2.1.0 2018.4 0.5.2	py36_0 py36_0 py36_0 py36_0 1 py36_0 hc3d631a_2 py36_0 py36_0 py36_0 py36he602eb0_0
pytest-arraydii pytest-astropy pytest-doctest pytest-openfile python python-dateut python-hdfs pytz pywavelets pyyaml	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2. 3.6.5 iil 2.7.3 2.1.0 2018.4 0.5.2 3.12	py36_0 py36_0 py36_0 py36_0 1 py36_0 hc3d631a_2 py36_0 py36_0 py36_0 py36e602eb0_0 py36hafb9ca4_1
pytest-arraydii pytest-astropy pytest-doctest pytest-openfile pytest-remote python python-dateut python-hdfs pytz pywavelets pyyaml pyzmq qt	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2. 3.6.5 il 2.7.3 2.1.0 2018.4 0.5.2 3.12 17.0.0	py36_0 py36_0 py36_0 py36_0 1 py36_0 1 py36_0 py36_0 py36_0 py36he602eb0_0 py36hefb9ca4_1 py36h14c3975_0 h7e424d6_0
pytest-arraydii pytest-astropy pytest-doctest pytest-remote python python-dateut python-hdfs pytz pywavelets pyyaml pyzmq qt qtawesome	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2. 3.6.5 il 2.7.3 2.1.0 2018.4 0.5.2 3.12 17.0.0 5.9.5 0.4.4	py36_0 py36_0 py36_0 py36_0 1 py36_0 1 py36_0 py36_0 py36_0 py36_0 py36602eb0_0 py36hafb9ca4_1 py36h44c3975_0 h7e424d6_0 py36h609ed8c_0
pytest-arraydii pytest-astropy pytest-doctest pytest-openfile python python-dateut python-hdfs pytz pywavelets pyyaml pyzmq qt qtawesome qtconsole	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2. 3.6.5 il 2.7.3 2.1.0 2018.4 0.5.2 3.12 17.0.0 5.9.5 0.4.4 4.3.1	py36_0 py36_0 py36_0 py36_0 1 py36_0 1 py36_0 py36_0 py36_0 py36he602eb0_0 py36hafb9ca4_1 py36h14c3975_0 h7e4224d6_0 py36h8673b5b_0
pytest-arraydii pytest-astropy pytest-doctest pytest-openfile pytest-remote python python-dateut python-hdfs pytz pywavelets pyyaml pyzmq qt qtawesome qtconsole qtpy	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2. 3.6.5 il 2.7.3 2.1.0 2018.4 0.5.2 3.12 17.0.0 5.9.5 0.4.4 4.3.1 1.4.1	py36_0 py36_0 py36_0 py36_0 py36_0 1 py36_0 hc3d631a_2 py36_0 py36_0 py36_0 py36602eb0_0 py36he602eb0_0 py36h4c3975_0 h7e424d6_0 py36h609ed8c_0 py36h673b5b_0 py36_0
pytest-arraydii pytest-doctest pytest-openfile pytest-remote python python-dateut python-hdfs pytz pywavelets pyyaml pyzmq qt qtawesome qtconsole qtpy readline	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2. 3.6.5 iil 2.7.3 2.1.0 2018.4 0.5.2 3.12 17.0.0 5.9.5 0.4.4 4.3.1 1.4.1 7.0	py36_0 py36_0 py36_0 py36_0 py36_0 1 py36_0 1 py36_0 py36_0 py36_0 py36_0 py36he602eb0_0 py36hafb9ca4_1 py36h14c3975_0 h7e424d6_0 py36h609ed8c_0 py36_0 ha6073c6_4
pytest-arraydii pytest-astropy pytest-doctest pytest-openfile pytest-remote python-dateut python-hdfs pytz pywavelets pyyaml pyzmq qt qtawesome qtconsole qtpy readline requests	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2. 3.6.5 iil 2.7.3 2.1.0 2018.4 0.5.2 3.12 17.0.0 5.9.5 0.4.4 4.3.1 1.4.1 7.0 2.18.4	py36_0 py36_0 py36_0 py36_0 py36_0 1 py36_0 1 py36_0 py36_0 py36_0 py36he602eb0_0 py36hafb9ca4_1 py36h14c3975_0 h7e424d6_0 py36h8f73b5b_0 py36_0 ha6073c6_4 py36he2e5f8d_1
pytest-arraydii pytest-astropy pytest-doctest pytest-openfile pytest-remote python-dateut python-hdfs pytz pywavelets pyyaml pyzmq qt qtawesome qtconsole qtpy readline requests-kerbei	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2 3.6.5 il 2.7.3 2.1.0 2018.4 0.5.2 3.12 17.0.0 5.9.5 0.4.4 4.3.1 1.4.1 7.0 2.18.4 eros 0.12	py36_0 py36_0 py36_0 py36_0 1 py36_0 1 py36_0 py36_0 py36_0 py36_0 py36he602eb0_0 py36he602eb0_0 py36hafb9ca4_1 py36h14c3975_0 h7e424d6_0 py36h8f73b5b_0 py36,0 h66073c6_4 py36he2e5f8d_1 .0 py36_0
pytest-arraydii pytest-astropy pytest-doctest pytest-remote python python-dateut python-hdfs pytz pywavelets pyyaml pyzmq qt qtawesome qtconsole qtpy readline requests requests-kerber rope	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2 3.6.5 il 2.7.3 2.1.0 2018.4 0.5.2 3.12 17.0.0 5.9.5 0.4.4 4.3.1 1.4.1 7.0 2.18.4 eros 0.12 0.10.7	py36_0 py36_0 py36_0 py36_0 1 py36_0 1 py36_0 py36_0 py36_0 py36_0 py36_0 py36602eb0_0 py36hafb9ca4_1 py36h44c3975_0 h7e424d6_0 py36h8f73b5b_0 py36_0 ha6073c6_4 py36he2e5f8d_1 0 py36h147e2ec_0
pytest-arraydii pytest-astropy pytest-doctest pytest-openfile pytest-remote python-dateut python-hdfs pytz pywavelets pyyaml pyzmq qt qtawesome qtconsole qtpy readline requests-kerbei	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2 3.6.5 il 2.7.3 2.1.0 2018.4 0.5.2 3.12 17.0.0 5.9.5 0.4.4 4.3.1 1.4.1 7.0 2.18.4 eros 0.12	py36_0 py36_0 py36_0 py36_0 py36_0 py36_0 1 py36_0 py36_0 py36_0 py36_0 py36602eb0_0 py36he602eb0_0 py36hafb9ca4_1 py36h14c3975_0 h7e424d6_0 py36h609ed8c_0 py36h609ed8c_0 py36h20 ha6073c6_4 py36he2e5f8d_1 00 py36h147e2ec_0 py36h14r2975_1
pytest-arraydii pytest-astropy pytest-doctest pytest-remote python python-dateut python-hdfs pytz pywavelets pyyaml pyzmq qt qtawesome qtconsole qtpy readline requests requests-kerber rope	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2 3.6.5 il 2.7.3 2.1.0 2018.4 0.5.2 3.12 17.0.0 5.9.5 0.4.4 4.3.1 1.4.1 7.0 2.18.4 eros 0.12 0.10.7	py36_0 py36_0 py36_0 py36_0 1 py36_0 1 py36_0 py36_0 py36_0 py36_0 py36_0 py36602eb0_0 py36hafb9ca4_1 py36h44c3975_0 h7e424d6_0 py36h8f73b5b_0 py36_0 ha6073c6_4 py36he2e5f8d_1 0 py36h147e2ec_0
pytest-arraydii pytest-astropy pytest-doctest pytest-openfile pytest-remote python python-dateut python-hdfs pytz pywavelets pyyaml pyzmq qt qtawesome qtconsole qtpy readline requests requests-kerbe rope ruamel_yaml	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2. 3.6.5 ii 2.7.3 2.1.0 2018.4 0.5.2 3.12 17.0.0 5.9.5 0.4.4 4.3.1 1.4.1 7.0 2.18.4 eros 0.12 0.10.7 0.15.3	py36_0 py36_0 py36_0 py36_0 py36_0 py36_0 1 py36_0 py36_0 py36_0 py36_0 py36602eb0_0 py36he602eb0_0 py36hafb9ca4_1 py36h14c3975_0 h7e424d6_0 py36h609ed8c_0 py36h609ed8c_0 py36h20 ha6073c6_4 py36he2e5f8d_1 00 py36h147e2ec_0 py36h14r2975_1
pytest-arraydii pytest-astropy pytest-doctest pytest-openfile pytest-remote python python-dateut python-hdfs pytz pywavelets pyyaml pyzmq qt qtawesome qtconsole qtpy readline requests requests-kerbe requests-kerbe ruamel_yaml sasl	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2. 3.6.5 iil 2.7.3 2.1.0 2018.4 0.5.2 3.12 17.0.0 5.9.5 0.4.4 4.3.1 1.4.1 7.0 2.18.4 eros 0.12 0.10.7 0.15.3 0.2.1	py36_0 py36_0 py36_0 py36_0 py36_0 1 py36_0 1 py36_0 py36_0 py36_0 py36_0 py36he602eb0_0 py36he602eb0_0 py36hafb9ca4_1 py36h14c3975_0 h7e424d6_0 py36h8f73b5b_0 py36_0 ha6073c6_4 py36he2e5f8d_1 0 py36h14re2e_0 5 py36h14re2e_0 5 py36h14re3975_1 py36h14c3975_1
pytest-arraydii pytest-astropy pytest-doctest pytest-openfile pytest-remote python python-dateut python-hdfs pytz pywavelets pyyaml pyzmq qt qtawesome qtconsole qtpy readline requests requests-kerber rope ruamel_yaml sasl scikit-image	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2. 3.6.5 iil 2.7.3 2.1.0 2018.4 0.5.2 3.12 17.0.0 5.9.5 0.4.4 4.3.1 1.4.1 7.0 2.18.4 eros 0.12 0.10.7 0.15.3 0.2.1 0.13.1	py36_0 py36_0 py36_0 py36_0 py36_0 1 py36_0 1 py36_0 py36_0 py36_0 py36_0 py36_0 py36he602eb0_0 py36hafb9ca4_1 py36h14c3975_0 h7e424d6_0 py36h8f73b5b_0 py36_0 ha6073c6_4 py36h2e25f8d_1 0 py36h147e2ec_0 5 py36h147e2ec_0 5 py36h147e2ec_0 5
pytest-arraydii pytest-astropy pytest-doctest pytest-openfile pytest-remote python python-dateut python-hdfs pytz pywavelets pyyaml pyzmq qt qtawesome qtconsole qtpy readline requests requests-kerber rope ruamel_yaml sasl scikit-image scikit-learn scipy	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2. 3.6.5 ii 2.7.3 2.1.0 2018.4 0.5.2 3.12 17.0.0 5.9.5 0.4.4 4.3.1 1.4.1 7.0 2.18.4 eros 0.12 0.10.7 0.15.3 0.2.1 0.13.1 0.19.1 1.1.0	py36_0 py36_0 py36_0 py36_0 1 py36_0 1 py36_0 1 py36_0 py36_0 py36_0 py36_0 py36he602eb0_0 py36hafb9ca4_1 py36h14c3975_0 h7e424d6_0 py36h8f73b5b_0 py36_0 pa36h609ed8c_0 py36h609ed8c_0 py36h14c3975_1 py36h14c3975_1 py36h14c3975_1 py36h14c3975_1 py36h7aa7ec6_0 py36hf2a7229_0
pytest-arraydii pytest-astropy pytest-doctest pytest-openfile pytest-remote python python-dateut python-hdfs pytz pywavelets pyyaml pyzmq qt qtawesome qtconsole qtpy readline requests requests requests requests kerbe rope ruamel_yaml sasl scikit-image scikit-learn scipy seaborn	ff 0.2 (0.3.0 plus 0.1.3 (0.2.0 cs 0.3.0 cs 0.3.0 cs 0.2.1 (0.5.2 cs 1.2 cs 1.7.0 cs 0.12 (0.1.1 cs 1.5 cs	py36_0 py36_0 py36_0 py36_0 py36_0 py36_0 1 py36_0 hc3d631a_2 py36_0 py36_0 py36_0 py36he602eb0_0 py36hafb9ca4_1 py36h14c3975_0 h7e424d6_0 py36h609ed8c_0 py36h609ed8c_0 py36h6073c6_4 py36h2e5f8d_1 00 py36h147e2ec_0 5 py36h14re2ec_0 5 py36h14c3975_1 <pip> py36h14c3975_1 py36h7aa7ec6_0 py36h7aa7ec6_0 py36h7aa7ec4_0 py36h7aa7ec4_0</pip>
pytest-arraydii pytest-astropy pytest-doctest pytest-openfile pytest-remote python python-dateut python-hdfs pytz pywavelets pyyaml pyzmq qt qtawesome qtconsole qtpy readline requests requests-kerbe requests requests-kerbe ruamel_yaml sasl scikit-image scikit-learn scipy seaborn send2trash	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2. 3.6.5 iil 2.7.3 2.1.0 2018.4 0.5.2 3.12 17.0.0 5.9.5 0.4.4 4.3.1 1.4.1 7.0 2.18.4 eros 0.12 0.10.7 0.15.3 0.2.1 0.13.1 0.19.1 1.1.0 0.8.1 1.5.0	py36_0 py36_0 py36_0 py36_0 py36_0 py36_0 1 py36_0 py36_0 py36_0 py36_0 py36_0 py36he602eb0_0 py36hafb9ca4_1 py36h14c3975_0 h7e424d6_0 py36h609ed8c_0 py36h609ed8c_0 py36h673b5b_0 py36h2e5f8d_1 0 py36h2e5f8d_1 0 py36h147e2ec_0 5 py36h147e2ec_0 5 py36h14c3975_1 py36h7a37ec6_0 py36h6737229_0 py36hf4d7ec4_0 py36_0
pytest-arraydii pytest-astropy pytest-doctest pytest-openfile pytest-remote python python-dateut python-hdfs pytz pywavelets pyyaml pyzmq qt qtawesome qtconsole qtpy readline requests-kerber rope ruamel_yaml sasl scikit-iearn scipy seaborn send2trash setuptools	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2. 3.6.5 iil 2.7.3 2.1.0 2018.4 0.5.2 3.12 17.0.0 5.9.5 0.4.4 4.3.1 1.4.1 7.0 2.18.4 eros 0.12 0.10.7 0.15.3 0.2.1 0.13.1 0.19.1 1.1.0 0.8.1 1.5.0 39.1.0	py36_0 py36_0 py36_0 py36_0 py36_0 py36_0 1 py36_0 py36_0 py36_0 py36_0 py36_0 py36602eb0_0 py36he602eb0_0 py36hafb9ca4_1 py36h14c3975_0 h7e424d6_0 py36h8f73b5b_0 py36_0 ha6073c6_4 py36h2e2e5f8d_1 .0 py36h147e2ec_0 5 py36h147e2ec_0 5 py36h147e2ec_0 5 py36h7a37ec6_0 py36h7a37ec6_0 py36h7a37ec6_0 py36h6d7e2c9_0 py36h6d7ec4_0 py36_0 py36_0
pytest-arraydii pytest-astropy pytest-doctest pytest-openfile pytest-remote python python-dateut python-hdfs pytz pywavelets pyyaml pyzmq qt qtawesome qtconsole qtpy readline requests requests-kerborope ruamel_yaml sasl scikit-image scikit-learn scipy seaborn send2trash setuptools sh	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2 3.6.5 il 2.7.3 2.1.0 2018.4 0.5.2 17.0.0 5.9.5 0.4.4 4.3.1 1.4.1 7.0 2.18.4 eros 0.12 0.10.7 0.15.3 0.2.1 0.13.1 0.19.1 1.1.0 0.8.1 1.5.0 39.1.0 1.12.14	py36_0 py36_0 py36_0 py36_0 py36_0 1 py36_0 1 py36_0 hc3d631a_2 py36_0 py36_0 py36he602eb0_0 py36he602eb0_0 py36hafb9ca4_1 py36h14c3975_0 h7e424d6_0 py36h8f73b5b_0 py36_0 ha6073c6_4 py36h2e5f8d_1 0 py36h14re2ec_0 5 py36h14re2ec_0 5 py36h14ra3975_1 py36h14c3975_1 py36h7aa7ec6_0 py36hfad7ec4_0 py36_0 py36_0 py36_0 py36_0 py36_0 py36_0
pytest-arraydii pytest-astropy pytest-doctest pytest-openfile pytest-remote python python-dateut python-hdfs pytz pywavelets pyyaml pyzmq qt qtawesome qtconsole qtpy readline requests requests-kerbe rope ruamel_yaml sasl scikit-image scikit-learn scipy seaborn send2trash setuptools sh simplegeneric	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2. 3.6.5 iil 2.7.3 2.1.0 2018.4 0.5.2 3.12 17.0.0 5.9.5 0.4.4 4.3.1 1.4.1 7.0 2.18.4 eros 0.12 0.10.7 0.15.3 0.2.1 0.19.1 1.1.0 0.8.1 1.5.0 39.1.0 1.12.14 0.8.1	py36_0 py36_0 py36_0 py36_0 py36_0 1 py36_0 1 py36_0 py36_0 py36_0 py36_0 py36he602eb0_0 py36hafb9ca4_1 py36h14c3975_0 h7e424d6_0 py36h8f73b5b_0 py36_0 ha6073c6_4 py36h2e5f8d_1 0 py36h14r22ec_0 5 py36h14r23975_1 <pre> <pre> </pre> <pre> </pre> <pre> <pre> <pre> </pre> <pre> </pre> <pre> <pre> <pre> </pre> <pre> <pre> <pre> <pre> </pre> <pre> <pre> <pre> <pre> </pre> <pre> <pre> <pre> <pre> <pre> </pre> <pre> <pre> <pre> <pre> <pre> </pre> <pre> <pp> <pre> <p< td=""></p<></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pp></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>
pytest-arraydii pytest-astropy pytest-doctest pytest-openfile pytest-remote python python-dateut python-hdfs pytz pywavelets pyyaml pyzmq qt qtawesome qtconsole qtpy readline requests requests requests-kerbe rope ruamel_yaml sasl scikit-image scikit-learn scipy seaborn send2trash setuptools sh simplegeneric simplejson	ff 0.2 (0.3.0 plus 0.1.3 (0.2.0 ses 0.3.0 data 0.2. 3.6.5 iil 2.7.3 (2.1.0 2018.4 (0.5.2 3.12 17.0.0 5.9.5 (0.4.4 4.3.1 1.4.1 7.0 (2.18.4 eros 0.12 (0.10.7 0.15.3 (0.2.1 (0.13.1 0.19.1 1.1.0 (0.8.1 1.5.0 39.1.0 1.12.14 (0.8.1 3.16.0 )	py36_0 py36_0 py36_0 py36_0 py36_0 py36_0 1 py36_0 py36_0 py36_0 py36_0 py36_0 py36he602eb0_0 py36hafb9ca4_1 py36h14c3975_0 h7e424d6_0 py36h609ed8c_0 py36h609ed8c_0 py36h6073c6_4 py36h2e5f8d_1 0 py36h14r2ec_0 5 py36h14r2ec_0 5 py36h14r2ec_0 5 py36h14r2ec_0
pytest-arraydii pytest-astropy pytest-doctest pytest-openfile pytest-remote python python-dateut python-hdfs pytz pywavelets pyyaml pyzmq qt qtawesome qtconsole qtpy readline requests requests-kerbe requests requests-kerbe rousel_yaml sasl scikit-image scikit-learn scipy seaborn send2trash setuptools sh simplegeneric simplegison singledispatch	ff 0.2 (0.3.0) plus 0.1.3 (0.3.0) plus 0.1.3 (0.3.0) plus 0.1.3 (0.3.0) plus 0.3.0 (0.3.0) plus 0.3.0 (0.3.0) plus 0.3.0 (0.3.6.5) (0.3.12 (0.3.1 (0.3.1 (0.13	py36_0 py36_0 py36_0 py36_0 py36_0 1 py36_0 1 py36_0 py36_0 py36_0 py36_0 py36_0 py3660 py36he602eb0_0 py36hafb9ca4_1 py36h14c3975_0 h7e424d6_0 py36h609ed8c_0 py36h8f73b5b_0 py36_0 ha6073c6_4 py36h2e5f8d_1 0 py36h2e5f8d_1 0 py36h147e2ec_0 5 py36h14c3975_1 py36h7a7ec6_0 py36h7a7ec6_0 py36h6737229_0 py36_0 py36_2 <pip> py36h7a26c63_0</pip>
pytest-arraydii pytest-astropy pytest-doctest pytest-openfile pytest-remote python python-dateut python-hdfs pytz pywavelets pyyaml pyzmq qt qtawesome qtconsole qtpy readline requests requests-kerbe requests-kerbe repuests scikit-image sci	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2. 3.6.5 iil 2.7.3 2.1.0 2018.4 0.5.2 3.12 17.0.0 5.9.5 0.4.4 4.3.1 1.4.1 7.0 2.18.4 eros 0.12 0.10.7 0.15.3 0.2.1 0.13.1 0.19.1 1.1.0 0.8.1 1.5.0 39.1.0 1.12.14 0.8.1 3.16.0 3.4.0.3 4.19.8	py36_0 py36_0 py36_0 py36_0 py36_0 py36_0 1 py36_0 py36_0 py36_0 py36_0 py36_0 py36_0 py36he602eb0_0 py36hafb9ca4_1 py36h14c3975_0 h7e424d6_0 py36h8f73b5b_0 py36_0 ha6073c6_4 py36h2e2e5f8d_1 0 py36h14re2ec_0 5 py36h14re3975_1 py36h14c3975_1 py36h7aa7ec6_0 py36hfad7ec4_0 py36_0 py366_0
pytest-arraydii pytest-astropy pytest-doctest pytest-openfile pytest-remote python python-dateut python-hdfs pytz pywavelets pyyaml pyzmq qt qtawesome qtconsole qtpy readline requests requests-kerber rope ruamel_yaml sasl scikit-image scikit-learn scipy seaborn send2trash setuptools sh simplegeneric simplejson singledispatch sip six	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2. 3.6.5 iil 2.7.3 2.1.0 2018.4 0.5.2 3.12 17.0.0 5.9.5 0.4.4 4.3.1 1.4.1 7.0 2.18.4 eros 0.12 0.10.7 0.15.3 0.2.1 0.13.1 0.19.1 1.1.0 0.8.1 1.5.0 39.1.0 1.12.14 0.8.1 3.16.0 3.4.0.3 4.19.8 1.11.0	py36_0 py36_0 py36_0 py36_0 py36_0 1 py36_0 1 py36_0 hc3d631a_2 py36_0 py36_0 py36he602eb0_0 py36hafb9ca4_1 py36h14c3975_0 h7e424d6_0 py36h8f73b5b_0 py36_0 ha6073c6_4 py36h2e2e5f8d_1 0 py36h14c2ec_0 5 py36h14c3975_1 py36h14c3975_1 py36h7aa7ec6_0 py36h7aa7ec6_0 py36h60 py36_0 py36_0 py36_0 py36_0 py36_0 py36_0 py36_0 py36_0 py36_0 py36h7a266c3_0 py36h7a266c3_0 py36h7a26c3_0 py36h7a266c3_0 py36h7a2c433_1
pytest-arraydii pytest-astropy pytest-doctest pytest-openfile pytest-remote python python-dateut python-hdfs pytz pywavelets pyyaml pyzmq qt qtawesome qtconsole qtpy readline requests requests-kerborope ruamel_yaml sasl scikit-image scikit-learn scipy seaborn send2trash setuptools sh simplegeneric simplejson singledispatch sip six snappy	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2. 3.6.5 iil 2.7.3 2.1.0 2018.4 0.5.2 3.12 17.0.0 5.9.5 0.4.4 4.3.1 1.4.1 7.0 2.18.4 eros 0.12 0.10.7 0.15.3 0.2.1 0.13.1 0.19.1 1.1.0 0.8.1 1.5.0 39.1.0 1.12.14 0.8.1 3.16.0 3.4.0.3 4.19.8 1.11.0 1.1.7	py36_0 py36_0 py36_0 py36_0 py36_0 1 py36_0 1 py36_0 1 py36_0 py36_0 py36_0 py36he602eb0_0 py36haf09ca4_1 py36h14c3975_0 h7e424d6_0 py36h8f73b5b_0 py36_0 ha6073c6_4 py36h2e5f8d_1 0 py36h14r2ec_0 5 py36h14r2ec_0 5 py36h14r2ec_0 5 py36h14r2ec_0 5 py36h14r2ec_0
pytest-arraydii pytest-astropy pytest-doctest pytest-openfile pytest-remote python python-dateut python-hdfs pytz pywavelets pyyaml pyzmq qt qtawesome qtconsole qtpy readline requests requests requests requests-kerbe rope ruamel_yaml sasl scikit-image scikit-learn scipy seaborn send2trash setuptools sh simplegeneric simplejson singledispatch sip six snappy snowballstemi	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2. 3.6.5 iil 2.7.3 2.1.0 2018.4 0.5.2 3.12 17.0.0 5.9.5 0.4.4 4.3.1 1.4.1 7.0 2.18.4 eros 0.12 0.10.7 0.15.3 0.2.1 0.13.1 0.19.1 1.1.0 0.8.1 1.5.0 3.9.1.0 1.12.14 0.8.1 3.16.0 3.4.0.3 4.0.3 4.0.3 4.0.3 4.11.0 1.1.7 mer 1.2.	py36_0 py36_0 py36_0 py36_0 py36_0 py36_0 1 py36_0 py36_0 py36_0 py36_0 py36_0 py36he602eb0_0 py36hafb9ca4_1 py36h14c3975_0 h7e424d6_0 py36h609ed8c_0 py36h609ed8c_0 py36h609ed8c_0 py36h14c3975_1 py36h14c3975_1 <pp>py36h14c3975_1 py36h14c3975_1 py36h7aa7ec6_0 py36h7aa7ec6_0 py36h67a26_0 py36_0 py36_0 py36_0 py36_0 py36h7a26_0 py36h7a26_0 py36h7a26_0 py36h7a26_0 py36_0 py36_0</pp>
pytest-arraydii pytest-astropy pytest-doctest pytest-openfile pytest-remote python python-dateut python-hdfs pytz pywavelets pyyaml pyzmq qt qtawesome qtconsole qtpy readline requests requests requests-kerbe rousel_yaml sasl scikit-image scikit-learn scipy seaborn send2trash setuptools sh simplegeneric simplejson singledispatch sip six snappy snowballstems sortedcollectic	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2. 3.6.5 iil 2.7.3 2.1.0 2018.4 0.5.2 3.12 17.0.0 5.9.5 0.4.4 4.3.1 1.4.1 7.0 2.18.4 eros 0.12 0.10.7 0.15.3 0.2.1 0.13.1 0.19.1 1.1.0 0.8.1 1.5.0 39.1.0 1.12.14 0.8.1 3.16.0 3.4.0.3 4.19.8 1.11.0 1.1.7 mer 1.2. ons 0.6.1	py36_0 py36_0 py36_0 py36_0 py36_0 py36_0 1 py36_0 py36_0 py36_0 py36_0 py36_0 py36he602eb0_0 py36hafb9ca4_1 py36h14c3975_0 h7e424d6_0 py36h609ed8c_0 py36h8f73b5b_0 py36h2 by36h2e5f8d_1 0 py36h14r2ec_0 5 py36h14c3975_1 <pre> py36h14c3975_1 py36h7a37ec6_0 py36hfa372c43_0 py36_0 py36_0 py36_0 py36_0 py36_0 py36_0 py36h7a7ec6_0 py36hfa372c43_0 py36_0 py36_0</pre>
pytest-arraydii pytest-astropy pytest-doctest pytest-openfile pytest-remote python python-dateut python-hdfs pytz pywavelets pyyaml pyzmq qt qtawesome qtconsole qtpy readline requests requests-kerbe requests reduests-kerbe reduests scikit-image scikit-	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2. 3.6.5 iil 2.7.3 2.1.0 2018.4 0.5.2 3.12 17.0.0 5.9.5 0.4.4 4.3.1 1.4.1 7.0 2.18.4 eros 0.12 0.10.7 0.15.3 0.2.1 0.19.1 1.1.0 0.8.1 1.5.0 39.1.0 1.12.14 0.8.1 3.16.0 3.4.0.3 4.19.8 1.11.0 1.1.7 mer 1.2. ons 0.6.1 ers 1.5.1	py36_0 py36_0 py36_0 py36_0 py36_0 py36_0 1 py36_0 py36_0 py36_0 py36_0 py36_0 py36_0 py36he602eb0_0 py36hafb9ca4_1 py36h14c3975_0 h7e424d6_0 py36h8f73b5b_0 py36_0 ha6073c6_4 py36h2e2e5f8d_1 0 py36h14rc3975_1 py36h14c3975_1 py36h7aa7ec6_0 py36hf372c9_0 py36hf372c9_0 py36h60 py36_0 py36h7a266c3_0 py36h7a266c3_0 py36h7a2c433_1 hbae5bb6_3 1 py36h6febd40_0 py36_0 0 py36_0 0 py36_0 0 py36_0 0 py36_0 py36h7a2c433_1 hbae5bb6_3 1 py36h6febd40_0 py36_0 0 py36_0 0 py36_0 0 py36_0 0 py36_0 py36h7a266c3_0 py36h7a266c3_0 py36h7a266c3_0 py36h7a266c3_0 py36h7a266c3_0 py36_0 py36_0 py36_0 py36_0 py36_0 py36_0
pytest-arraydii pytest-arraydii pytest-doctest pytest-openfile pytest-remote python python-dateut python-hdfs pytz pywavelets pyyaml pyzmq qt qtawesome qtconsole qtpy readline requests requests-kerbe rope ruamel_yaml sasl scikit-image scikit-learn scipy seaborn send2trash setuptools sh simplegeneric simplejson singledispatch sip six snappy snowballstemis sortedcollectic sortedcontains sphinx	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2. 3.6.5 iil 2.7.3 2.1.0 2018.4 0.5.2 3.12 17.0.0 5.9.5 0.4.4 4.3.1 1.4.1 7.0 2.18.4 eros 0.12 0.10.7 0.15.3 0.2.1 0.19.1 1.1.0 0.8.1 1.5.0 39.1.0 1.12.14 0.8.1 3.16.0 3.4.0.3 4.19.8 1.11.0 1.1.7 mer 1.2. ons 0.6.1 ers 1.5.1 1.7.4	py36_0 py36_0 py36_0 py36_0 py36_0 1 py36_0 1 py36_0 py36_0 py36_0 py36_0 py36_0 py36he602eb0_0 py36hafb9ca4_1 py36h14c3975_0 h7e424d6_0 py36h8f73b5b_0 py36_0 ha6073c6_4 py36h2e2e5f8d_1 0 py36h14re2e_0 5 py36h14re2e_0 5 py36h14re3975_1 py36h7aa7ec6_0 py36h7aa7ec6_0 py36h6q0 py36h6q0 py36h6d7e24_0 py36h6q0 py36h6q0 py36h7ab6q0 py36h6q0 py36h7ab6q0 py36h7ab6q0 py36h7ab6q0
pytest-arraydii pytest-arraydii pytest-doctest pytest-openfile pytest-remote python python-dateut python-hdfs pytz pywavelets pyyaml pyzmq qt qtawesome qtconsole qtpy readline requests requests-kerbor rope ruamel_yaml sasl scikit-image scikit-learn scipy seaborn send2trash setuptools sh simplegeneric simplejson singledispatch sip six snappy snowballstems sortedcollection sortedcollection sortedcollection sortedcontains sphinx sphinxsontrib	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2. 3.6.5 iil 2.7.3 2.1.0 2018.4 0.5.2 3.12 17.0.0 5.9.5 0.4.4 4.3.1 1.4.1 7.0 2.18.4 eros 0.12 0.10.7 0.15.3 0.2.1 0.13.1 0.19.1 1.1.0 0.8.1 1.5.0 39.1.0 1.12.14 0.8.1 3.16.0 3.4.0.3 4.19.8 1.11.0 1.1.7 mer 1.2. ons 0.6.1 ers 1.5.1 1.7.4 1.0	py36_0 py36_0 py36_0 py36_0 py36_0 1 py36_0 1 py36_0 py36_0 py36_0 py36_0 py36_0 py36he602eb0_0 py36haf09ca4_1 py36h14c3975_0 h7e424d6_0 py36h609ed8c_0 py36h8f73b5b_0 py36_0 ha6073c6_4 py36h2e5f8d_1 0 py36h14re2ec_0 5 py36h14re2ec_0 5 py36h14re3975_1 py36h7aa7ec6_0 py36hfad7ec4_0 py36h60 py36_0
pytest-arraydii pytest-astropy pytest-doctest pytest-openfile pytest-remote python python-dateut python-hdfs pytz pywavelets pyyaml pyzmq qt qtawesome qtconsole qtpy readline requests requests requests requests requests requests scikit-image scikit-learn scipy seaborn send2trash setuptools sh simplegeneric simplejson singledispatch sip six snappy snowballstem sortedcollectic sortedcontain sphinx sphinxcontrib sphinxcontrib	ff 0.2 (1.3.0 plus 0.1.3 plus 0.1.3 plus 0.1.3 plus 0.2.3 plus 0.2.3 plus 0.2.3 plus 0.2.3 plus 0.2.1 plus 0.5.2 plus 0.5.2 plus 0.5.2 plus 0.1.1 plus 0.1	py36_0 py36_0 py36_0 py36_0 py36_0 py36_0 1 py36_0 py36_0 py36_0 py36_0 py36_0 py36602eb0_0 py36he602eb0_0 py36hafb9ca4_1 py36h14c3975_0 h7e424d6_0 py36h609ed8c_0 py36h609ed8c_0 py36h6073c6_4 py36h0 py36h14r2ec_0 5 py36h14r2ec_0 5 py36h14r2ec_0 5 py36h14c3975_1 <pip> py36h14c3975_1 py36h7aa7ec6_0 py36h6d7ec4_0 py36_0 py36h6febd40_0 py36_0 py36_0</pip>
pytest-arraydii pytest-astropy pytest-doctest pytest-openfile pytest-remote python python-dateut python-hdfs pytz pywavelets pyyaml pyzmq qt qtawesome qtconsole qtpy readline requests requests requests-kerbe rousets-kerbe rous	ff 0.2 0.3.0 plus 0.1.3 es 0.3.0 data 0.2. 3.6.5 iil 2.7.3 2.1.0 2018.4 0.5.2 3.12 17.0.0 5.9.5 0.4.4 4.3.1 1.4.1 7.0 2.18.4 eros 0.12 0.10.7 0.15.3 0.2.1 0.13.1 0.19.1 1.1.0 0.8.1 1.5.0 39.1.0 1.12.14 0.8.1 3.16.0 3.4.0.3 4.19.8 1.11.0 1.1.7 mer 1.2. ons 0.6.1 ers 1.5.1 1.7.4 1.0 websupport 3.2.8	py36_0 py36_0 py36_0 py36_0 py36_0 1 py36_0 1 py36_0 py36_0 py36_0 py36_0 py36_0 py36he602eb0_0 py36hafb9ca4_1 py36h14c3975_0 h7e424d6_0 py36h609ed8c_0 py36h8f73b5b_0 py36h2 ha6073c6_4 py36h2e5f8d_1 0 py36h14r2ec_0 5 py36h14c3975_1 <pip>py36h14c3975_1 py36h7a37ec6_0 py36h7a37ec6_0 py36h6737229_0 py36h6737229_0 py36h67372c43_0 py36_0 py36_0 py36_0 py36_0 py36_0 py36_0 py36_0 py36h7a266c3_0 py36h7a266c3_0 py36h7a266c3_0 py36h6febd40_0 py36_0 py36_0</pip>
pytest-arraydii pytest-astropy pytest-doctest pytest-openfile pytest-remote python python-dateut python-hdfs pytz pywavelets pyyaml pyzmq qt qtawesome qtconsole qtpy readline requests requests requests requests requests requests scikit-image scikit-learn scipy seaborn send2trash setuptools sh simplegeneric simplejson singledispatch sip six snappy snowballstem sortedcollectic sortedcontain sphinx sphinxcontrib sphinxcontrib	ff 0.2 (1.3.0 plus 0.1.3 plus 0.1.3 plus 0.1.3 plus 0.2.3 plus 0.2.3 plus 0.2.3 plus 0.2.3 plus 0.2.1 plus 0.5.2 plus 0.5.2 plus 0.5.2 plus 0.1.1 plus 0.1	py36_0 py36_0 py36_0 py36_0 py36_0 py36_0 1 py36_0 py36_0 py36_0 py36_0 py36_0 py36602eb0_0 py36he602eb0_0 py36hafb9ca4_1 py36h14c3975_0 h7e424d6_0 py36h609ed8c_0 py36h609ed8c_0 py36h6073c6_4 py36h0 py36h14r2ec_0 5 py36h14r2ec_0 5 py36h14r2ec_0 5 py36h14c3975_1 <pip> py36h14c3975_1 py36h7aa7ec6_0 py36h6d7ec4_0 py36_0 py36h6febd40_0 py36_0 py36_0</pip>

sqlite	3.23.1	he433501_0
statsmodels	0.9.0	py36h3010b51_0
sympy	1.1.1	py36hc6d1c1c_0
tblib	1.3.2	py36h34cf8b6_0
terminado	0.8.1	py36_1
testpath	0.3.1	py36h8cadb63_0
thrift	0.11.0	<pip></pip>
thrift-sasl	0.3.0	<pip></pip>
tk	8.6.7	hc745277_3
toolz	0.9.0	py36_0
tornado	5.0.2	py36_0
traitlets	4.3.2	py36h674d592_0
typing	3.6.4	py36_0
unicodecsv	0.14.1	py36ha668878_0
unixodbc	2.3.6	h1bed415_0
urllib3	1.22	py36hbe7ace6_0
wcwidth	0.1.7	py36hdf4376a_0
webencodings	0.5.1	p,,
werkzeug	0.14.1	py36_0
wheel	0.31.1	py36_0
widgetsnbexte		2.1 py36_0
wrapt	1.10.11	py36h28b7045_0
xlrd	1.1.0	py36h1db9f0c_1
xlsxwriter	1.0.4	py36_0
xlwt	1.3.0	py36h7b00a1f_0
XZ	5.2.4	h14c3975_4
yaml	0.1.7	had09818_2
zeromq	4.2.5	h439df22_0
zict	0.1.3	py36h3a3bf81_0
zlib	1.2.11	ha838bed_2