

Red Hot Paneer (butter) Masala

Version 1.7

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GNU Free Documentation License

kitchenware



setup

```
$ sudo yum install fedora-packager
```

kitchenware



setup

```
$ sudo yum install fedora-packager  
$ rpmdev-setuptree
```

kitchenware



setup

```
$ sudo yum install fedora-packager  
$ rpmdev-setuptree  
$ ls ~/rpmbuild
```


kitchenware



setup

```
$ sudo yum install fedora-packager
```

```
$ rpmdev-setuptree
```

```
$ ls ~/rpmbuild
```

BUILD BUILDROOT RPMS SOURCES SPECS SRPMS

ingredients



paneer-butter-masala-2.0/paneer-butter-masala.c

```
#include <stdio.h>

int main (int argc, char **argv)
{
    printf ("You gotta be kidding me!\n");
    return 0;
}
```

procedure

paneer-butter-masala-2.0/Makefile

```
GCC=/usr/bin/gcc
INSTALL=/usr/bin/install
DESTDIR=/usr/local/bin

TARGET=paneer-butter-masala

all:
    $(GCC) $(TARGET).c -o $(TARGET)

install:
    chmod +x $(TARGET)
    $(INSTALL) -d $(DESTDIR)
    $(INSTALL) $(TARGET) $(DESTDIR)

clean:
    rm $(TARGET)
```

recipe

paneer-butter-masala.spec

```
Name:      paneer-butter-masala
```

paneer-butter-masala.spec

```
Name:    paneer-butter-masala
Version: 2.0
```

paneer-butter-masala.spec

```
Name:    paneer-butter-masala
Version: 2.0
Release: 1%{?dist}
```

paneer-butter-masala.spec

Name: paneer-butter-masala

Version: 2.0

Release: 1%{?dist}

Summary: Paneer butter masala side dish

paneer-butter-masala.spec

```
Name:      paneer-butter-masala
Version:   2.0
Release:   1%{?dist}
Summary:   Paneer butter masala side dish

Group:     Applications/Productivity
```


paneer-butter-masala.spec

```
Name:      paneer-butter-masala
Version:   2.0
Release:   1%{?dist}
Summary:   Paneer butter masala side dish

Group:     Applications/Productivity
License:   GPLv2+
```

paneer-butter-masala.spec

```
Name:      paneer-butter-masala
Version:   2.0
Release:   1%{?dist}
Summary:   Paneer butter masala side dish

Group:     Applications/Productivity
License:   GPLv2+
URL:       http://www.shakthimaan.com
```

paneer-butter-masala.spec

```
Name:      paneer-butter-masala
Version:   2.0
Release:   1%{?dist}
Summary:   Paneer butter masala side dish

Group:     Applications/Productivity
License:   GPLv2+
URL:       http://www.shakthimaan.com
Source0:   http://www.shakthimaan.com/downloads/glv/
           presentations/%{name}-%{version}.tar.bz2
```

recipe



paneer-butter-masala.spec ...

Comment

paneer-butter-masala-2.0-1.i686

recipe

paneer-butter-masala.spec ...

```
...  
# BuildRequires: gcc make
```

https://fedoraproject.org/wiki/Packaging:Guidelines#Exceptions_2

recipe

paneer-butter-masala.spec ...

```
...  
# BuildRequires: gcc make  
# Requires: naan
```

https://fedoraproject.org/wiki/Packaging:Guidelines#Exceptions_2

recipe

paneer-butter-masala.spec ...

...

```
# BuildRequires: gcc make
```

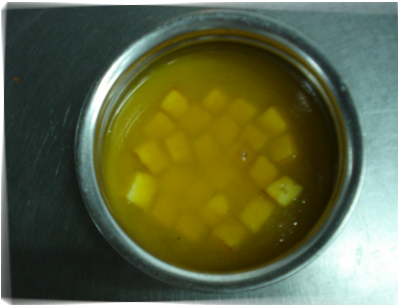
```
# Requires: naan
```

```
%description
```

```
Red hot paneer butter masala is a popular  
mouth-watering side dish in India filled with  
Indian spices, paneer cubes, cream, tomatoes,  
and coriander.
```

https://fedoraproject.org/wiki/Packaging:Guidelines#Exceptions_2

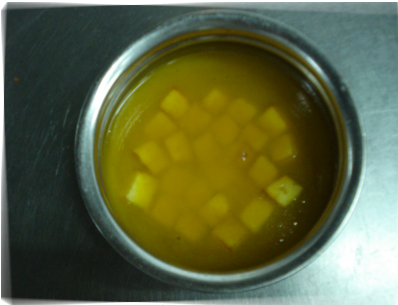
recipe



paneer-butter-masala.spec ...

...
%prep

recipe



paneer-butter-masala.spec ...

```
...  
%prep  
%setup -qn %{name}
```

recipe



paneer-butter-masala.spec ...

```
...  
%build
```

recipe



paneer-butter-masala.spec ...

```
...  
%build  
make %{?_smp_mflags}
```

recipe



paneer-butter-masala.spec ...

```
...  
%install
```

recipe



paneer-butter-masala.spec ...

```
...  
%install  
make install DESTDIR=%{buildroot}/%{_bindir}
```

recipe

paneer-butter-masala.spec ...

...

recipe

paneer-butter-masala.spec ...

...

```
%files
```

recipe

paneer-butter-masala.spec ...

...

```
%files
```

```
 %{_bindir}/paneer-butter-masala
```


recipe

paneer-butter-masala.spec ...

...

```
%files
```

```
%{_bindir}/paneer-butter-masala
```

```
%doc README
```

recipe

paneer-butter-masala.spec ...

...

```
%files
```

```
%{_bindir}/paneer-butter-masala
```

```
%doc README
```

```
%changelog
```

paneer-butter-masala.spec ...

...

%files

%{_bindir}/paneer-butter-masala

%doc README

%changelog

* Fri May 1 2009 Shakthi Kannan

<shakthimaan [AT] gmail DOT com> 2.0-1

paneer-butter-masala.spec ...

...

%files

%{_bindir}/paneer-butter-masala

%doc README

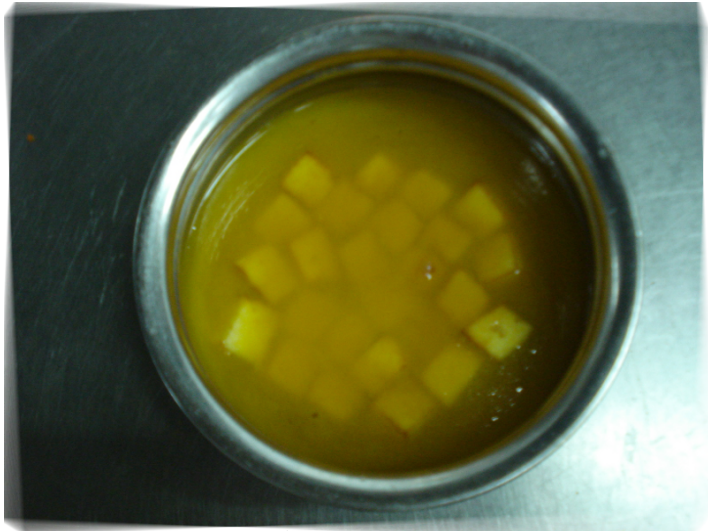
%changelog

* Fri May 1 2009 Shakthi Kannan

<shakthimaan [AT] gmail DOT com> 2.0-1

- Packaged Paneer Butter Masala.

prepare



prepare

%prep

```
$ rpmbuild -bp paneer-butter-masala.spec
```


prepare

%prep

```
$ rpmbuild -bp paneer-butter-masala.spec
```

```
Executing(%prep): /bin/sh -e /var/tmp/rpm-tmp.RzBRDh  
+ umask 022  
+ cd /home/shaks/rpmbuild/BUILD  
+ cd /home/shaks/rpmbuild/BUILD  
+ rm -rf paneer-butter-masala  
+ /usr/bin/bzip2 -dc /home/shaks/rpmbuild/SOURCES/  
paneer-butter-masala-2.0.tar.bz2  
+ /bin/tar -xf -  
+ STATUS=0  
+ '[' 0 -ne 0 -n ]'  
+ cd paneer-butter-masala  
+ /bin/chmod -Rf a+rX,u+w,g-w,o-w .  
+ exit 0
```


summary

order	task	command
prepare	%prep	-bp

make



make

%build

```
$ rpmbuild -bc paneer-butter-masala.spec
```

%build

```
$ rpmbuild -bc paneer-butter-masala.spec
```

```
Executing(%prep): /bin/sh -e /var/tmp/rpm-tmp.EkXxV0
+ umask 022
+ cd /home/shaks/rpmbuild/BUILD
+ cd /home/shaks/rpmbuild/BUILD
+ rm -rf paneer-butter-masala
+ /usr/bin/bzip2 -dc /home/shaks/rpmbuild/SOURCES/
  paneer-butter-masala-2.0.tar.bz2
+ /bin/tar -xf -
+ STATUS=0
+ '[' 0 -ne 0 ']'
+ cd paneer-butter-masala
+ /bin/chmod -Rf a+rX,u+w,g-w,o-w .
+ exit 0
```

%build

```
$ rpmbuild -bc paneer-butter-masala.spec
```

```
Executing(%prep): /bin/sh -e /var/tmp/rpm-tmp.EkXxV0
+ umask 022
+ cd /home/shaks/rpmbuild/BUILD
+ cd /home/shaks/rpmbuild/BUILD
+ rm -rf paneer-butter-masala
+ /usr/bin/bzip2 -dc /home/shaks/rpmbuild/SOURCES/
  paneer-butter-masala-2.0.tar.bz2
+ /bin/tar -xf -
+ STATUS=0
+ '[' 0 -ne 0 ']'
+ cd paneer-butter-masala
+ /bin/chmod -Rf a+rX,u+w,g-w,o-w .
+ exit 0
```

%build

...

```
Executing(%build): /bin/sh -e /var/tmp/rpm-tmp.vpa79P
+ umask 022
+ cd /home/shaks/rpmbuild/BUILD
+ cd paneer-butter-masala
+ make -j3
/usr/bin/gcc paneer-butter-masala.c
  -o paneer-butter-masala
+ exit 0
```

%build

...

```
Executing(%build): /bin/sh -e /var/tmp/rpm-tmp.vpa79P
+ umask 022
+ cd /home/shaks/rpmbuild/BUILD
+ cd paneer-butter-masala
+ make -j3
/usr/bin/gcc paneer-butter-masala.c
  -o paneer-butter-masala
+ exit 0
```

summary

order	task	command
prepare	%prep	-bp
make	%build	-bc

serve



serve

%install

```
$ rpmbuild -bi paneer-butter-masala.spec
```

%install

```
$ rpmbuild -bi paneer-butter-masala.spec
```

```
Executing(%prep): /bin/sh -e /var/tmp/rpm-tmp.ICxYij
+ umask 022
+ cd /home/shaks/rpmbuild/BUILD
+ cd /home/shaks/rpmbuild/BUILD
+ rm -rf paneer-butter-masala
+ /usr/bin/bzip2 -dc /home/shaks/rpmbuild/SOURCES/
  paneer-butter-masala-2.0.tar.bz2
+ /bin/tar -xf -
+ STATUS=0
+ '[' 0 -ne 0 ']'
+ cd paneer-butter-masala
+ /bin/chmod -Rf a+rX,u+w,g-w,o-w .
+ exit 0
```

%install

```
$ rpmbuild -bi paneer-butter-masala.spec
```

```
Executing(%prep): /bin/sh -e /var/tmp/rpm-tmp.ICxYij
+ umask 022
+ cd /home/shaks/rpmbuild/BUILD
+ cd /home/shaks/rpmbuild/BUILD
+ rm -rf paneer-butter-masala
+ /usr/bin/bzip2 -dc /home/shaks/rpmbuild/SOURCES/
  paneer-butter-masala-2.0.tar.bz2
+ /bin/tar -xf -
+ STATUS=0
+ '[' 0 -ne 0 ']'
+ cd paneer-butter-masala
+ /bin/chmod -Rf a+rX,u+w,g-w,o-w .
+ exit 0
```

%install

```
...  
Executing(%build): /bin/sh -e /var/tmp/rpm-tmp.aKhGho  
+ umask 022  
+ cd /home/shaks/rpmbuild/BUILD  
+ cd paneer-butter-masala  
+ make -j3  
/usr/bin/gcc paneer-butter-masala.c  
  -o paneer-butter-masala  
+ exit 0  
Executing(%install)d: /bin/sh -e  
  /var/tmp/rpm-tmp.YQEwnt  
+ umask 022  
+ cd /home/shaks/rpmbuild/BUILD
```

%install

```
...
Executing(%build): /bin/sh -e /var/tmp/rpm-tmp.aKhGho
+ umask 022
+ cd /home/shaks/rpmbuild/BUILD
+ cd paneer-butter-masala
+ make -j3
/usr/bin/gcc paneer-butter-masala.c
  -o paneer-butter-masala
+ exit 0
Executing(%install)d: /bin/sh -e
  /var/tmp/rpm-tmp.YQEwnt
+ umask 022
+ cd /home/shaks/rpmbuild/BUILD
```

%install

```
...
+ cd paneer-butter-masala
+ rm -rf /home/shaks/rpmbuild/BUILDROOT/
  paneer-butter-masala-2.0-1.i386
+ make install
  DESTDIR=/home/shaks/rpmbuild/BUILDROOT/paneer-
  butter-masala-2.0-1.i386/usr/bin
chmod +x paneer-butter-masala
/usr/bin/install -d
  /home/shaks/rpmbuild/BUILDROOT/paneer-butter-
  masala-2.0-1.i386/usr/bin
/usr/bin/install paneer-butter-masala
  /home/shaks/rpmbuild/BUILDROOT/paneer-butter-
  masala-2.0-1.i386/usr/bin
```

%install

```
...  
+ cd paneer-butter-masala  
+ rm -rf /home/shaks/rpmbuild/BUILDROOT/  
paneer-butter-masala-2.0-1.i386  
+ make install  
DESTDIR=/home/shaks/rpmbuild/BUILDROOT/paneer-  
butter-masala-2.0-1.i386/usr/bin  
chmod +x paneer-butter-masala  
/usr/bin/install -d  
/home/shaks/rpmbuild/BUILDROOT/paneer-butter-  
masala-2.0-1.i386/usr/bin  
/usr/bin/install paneer-butter-masala  
/home/shaks/rpmbuild/BUILDROOT/paneer-butter-  
masala-2.0-1.i386/usr/bin
```


%install

```
...  
+ cd paneer-butter-masala  
+ rm -rf /home/shaks/rpmbuild/BUILDROOT/  
paneer-butter-masala-2.0-1.i386  
+ make install  
DESTDIR=/home/shaks/rpmbuild/BUILDROOT/paneer-  
butter-masala-2.0-1.i386/usr/bin  
chmod +x paneer-butter-masala  
/usr/bin/install -d  
/home/shaks/rpmbuild/BUILDROOT/paneer-butter-  
masala-2.0-1.i386/usr/bin  
/usr/bin/install paneer-butter-masala  
/home/shaks/rpmbuild/BUILDROOT/paneer-butter-  
masala-2.0-1.i386/usr/bin
```

%install

```
...
+ /usr/lib/rpm/check-rpaths /usr/lib/rpm/check-
  buildroot
+ /usr/lib/rpm/brp-compress
+ /usr/lib/rpm/brp-strip
+ /usr/lib/rpm/brp-strip-static-archive
+ /usr/lib/rpm/brp-strip-comment-note
Processing files: paneer-butter-masala-2.0-1
Executing(%doc): /bin/sh -e /var/tmp/rpm-tmp.W4HNME
+ umask 022
+ cd /home/shaks/rpmbuild/BUILD
+ cd paneer-butter-masala
```

%install

```
...
+ /usr/lib/rpm/check-rpaths /usr/lib/rpm/check-
  buildroot
+ /usr/lib/rpm/brp-compress
+ /usr/lib/rpm/brp-strip
+ /usr/lib/rpm/brp-strip-static-archive
+ /usr/lib/rpm/brp-strip-comment-note
Processing files: paneer-butter-masala-2.0-1
Executing(%doc): /bin/sh -e /var/tmp/rpm-tmp.W4HNME
+ umask 022
+ cd /home/shaks/rpmbuild/BUILD
+ cd paneer-butter-masala
```

%install

```
...
+ DOCDIR=/home/shaks/rpmbuild/BUILDROOT/paneer-butter-masala-2.0-1.
  i386/usr/share/doc/paneer-butter-masala-2.0
+ export DOCDIR
+ rm -rf /home/shaks/rpmbuild/BUILDROOT/paneer-butter-masala-2.0-1.
  i386/usr/share/doc/paneer-butter-masala-2.0
+ /bin/mkdir -p /home/shaks/rpmbuild/BUILDROOT/paneer-butter-masala-2.0-
  1.i386/usr/share/doc/paneer-butter-masala-2.0
+ cp -pr README /home/shaks/rpmbuild/BUILDROOT/paneer-butter-masala-2.0-
  1.i386/usr/share/doc/paneer-butter-masala-2.0
+ exit 0
Requires(rpmlib): rpmlib(CompressedFileNames) <=
  3.0.4-1 rpmlib(PayloadFilesHavePrefix) <= 4.0-1
Requires: libc.so.6 libc.so.6(GLIBC_2.0)
rtld(GNU_HASH)
Checking for unpackaged file(s):
  /usr/lib/rpm/check-files
  /home/shaks/rpmbuild/BUILDROOT/paneer-butter-
  masala-2.0-1.i386
```

%install

```
...
+ DOCDIR=/home/shaks/rpmbuild/BUILDROOT/paneer-butter-masala-2.0-1.
  i386/usr/share/doc/paneer-butter-masala-2.0
+ export DOCDIR
+ rm -rf /home/shaks/rpmbuild/BUILDROOT/paneer-butter-masala-2.0-1.
  i386/usr/share/doc/paneer-butter-masala-2.0
+ /bin/mkdir -p /home/shaks/rpmbuild/BUILDROOT/paneer-butter-masala-2.0-
  1.i386/usr/share/doc/paneer-butter-masala-2.0
+ cp -pr README /home/shaks/rpmbuild/BUILDROOT/paneer-butter-masala-2.0-
  1.i386/usr/share/doc/paneer-butter-masala-2.0
+ exit 0
Requires(rpmlib): rpmlib(CompressedFileNames) <=
  3.0.4-1 rpmlib(PayloadFilesHavePrefix) <= 4.0-1
Requires: libc.so.6 libc.so.6(GLIBC_2.0)
rtld(GNU_HASH)
Checking for unpackaged file(s):
  /usr/lib/rpm/check-files
  /home/shaks/rpmbuild/BUILDROOT/paneer-butter-
  masala-2.0-1.i386
```

%install

```
...
+ DOCDIR=/home/shaks/rpmbuild/BUILDROOT/paneer-butter-masala-2.0-1.
  i386/usr/share/doc/paneer-butter-masala-2.0
+ export DOCDIR
+ rm -rf /home/shaks/rpmbuild/BUILDROOT/paneer-butter-masala-2.0-1.
  i386/usr/share/doc/paneer-butter-masala-2.0
+ /bin/mkdir -p /home/shaks/rpmbuild/BUILDROOT/paneer-butter-masala-2.0-
  1.i386/usr/share/doc/paneer-butter-masala-2.0
+ cp -pr README /home/shaks/rpmbuild/BUILDROOT/paneer-butter-masala-2.0-
  1.i386/usr/share/doc/paneer-butter-masala-2.0
+ exit 0
Requires(rpmlib): rpmlib(CompressedFileNames) <=
  3.0.4-1 rpmlib(PayloadFilesHavePrefix) <= 4.0-1
Requires: libc.so.6 libc.so.6(GLIBC_2.0)
rtld(GNU_HASH)
Checking for unpackaged file(s):
  /usr/lib/rpm/check-files
  /home/shaks/rpmbuild/BUILDROOT/paneer-butter-
  masala-2.0-1.i386
```

summary

order	task	command
prepare	%prep	-bp
make	%build	-bc
serve	%install	-bi

package



package

.rpm

```
$ rpmbuild -bb paneer-butter-masala.spec
```

package

.rpm

```
$ rpmbuild -bb paneer-butter-masala.spec
```

```
Executing(%prep): /bin/sh -e /var/tmp/rpm-tmp.CYBDvV
+ umask 022
+ cd /home/shaks/rpmbuild/BUILD
+ cd /home/shaks/rpmbuild/BUILD
+ rm -rf paneer-butter-masala
+ /usr/bin/bzip2 -dc /home/shaks/rpmbuild/SOURCES/
  paneer-butter-masala-2.0.tar.bz2
+ /bin/tar -xf -
+ STATUS=0
+ '[' 0 -ne 0 ']'
+ cd paneer-butter-masala
+ /bin/chmod -Rf a+rX,u+w,g-w,o-w .
+ exit 0
```

package

.rpm

```
$ rpmbuild -bb paneer-butter-masala.spec
```

```
Executing(%prep): /bin/sh -e /var/tmp/rpm-tmp.CYBDvV
+ umask 022
+ cd /home/shaks/rpmbuild/BUILD
+ cd /home/shaks/rpmbuild/BUILD
+ rm -rf paneer-butter-masala
+ /usr/bin/bzip2 -dc /home/shaks/rpmbuild/SOURCES/
  paneer-butter-masala-2.0.tar.bz2
+ /bin/tar -xf -
+ STATUS=0
+ '[' 0 -ne 0 ']'
+ cd paneer-butter-masala
+ /bin/chmod -Rf a+rX,u+w,g-w,o-w .
+ exit 0
```

.rpm

```
...
Executing(%build): /bin/sh -e /var/tmp/rpm-tmp.ik1TuP
+ umask 022
+ cd /home/shaks/rpmbuild/BUILD
+ cd paneer-butter-masala
+ make -j3
/usr/bin/gcc paneer-butter-masala.c
  -o paneer-butter-masala
+ exit 0
Executing(%install)d: /bin/sh -e
  /var/tmp/rpm-tmp.ropxBJ
+ umask 022
+ cd /home/shaks/rpmbuild/BUILD
```

.rpm

```
...
Executing(%build): /bin/sh -e /var/tmp/rpm-tmp.ik1TuP
+ umask 022
+ cd /home/shaks/rpmbuild/BUILD
+ cd paneer-butter-masala
+ make -j3
/usr/bin/gcc paneer-butter-masala.c
  -o paneer-butter-masala
+ exit 0
Executing(%install)d: /bin/sh -e
  /var/tmp/rpm-tmp.ropxBJ
+ umask 022
+ cd /home/shaks/rpmbuild/BUILD
```

.rpm

```
...
+ cd paneer-butter-masala
+ rm -rf /home/shaks/rpmbuild/BUILDROOT/
  paneer-butter-masala-2.0-1.i386
+ make install
  DESTDIR=/home/shaks/rpmbuild/BUILDROOT/paneer-
  butter-masala-2.0-1.i386/usr/bin
chmod +x paneer-butter-masala
/usr/bin/install -d
  /home/shaks/rpmbuild/BUILDROOT/paneer-butter-
  masala-2.0-1.i386/usr/bin
/usr/bin/install paneer-butter-masala
  /home/shaks/rpmbuild/BUILDROOT/paneer-butter-
  masala-2.0-1.i386/usr/bin
```

package

.rpm

```
...  
+ cd paneer-butter-masala  
+ rm -rf /home/shaks/rpmbuild/BUILDROOT/  
paneer-butter-masala-2.0-1.i386  
+ make install  
DESTDIR=/home/shaks/rpmbuild/BUILDROOT/paneer-  
butter-masala-2.0-1.i386/usr/bin  
chmod +x paneer-butter-masala  
/usr/bin/install -d  
/home/shaks/rpmbuild/BUILDROOT/paneer-butter-  
masala-2.0-1.i386/usr/bin  
/usr/bin/install paneer-butter-masala  
/home/shaks/rpmbuild/BUILDROOT/paneer-butter-  
masala-2.0-1.i386/usr/bin
```

.rpm

```
...
+ cd paneer-butter-masala
+ rm -rf /home/shaks/rpmbuild/BUILDROOT/
  paneer-butter-masala-2.0-1.i386
+ make install
  DESTDIR=/home/shaks/rpmbuild/BUILDROOT/paneer-
  butter-masala-2.0-1.i386/usr/bin
chmod +x paneer-butter-masala
/usr/bin/install -d
  /home/shaks/rpmbuild/BUILDROOT/paneer-butter-
  masala-2.0-1.i386/usr/bin
/usr/bin/install paneer-butter-masala
  /home/shaks/rpmbuild/BUILDROOT/paneer-butter-
  masala-2.0-1.i386/usr/bin
```


%install

```
...
+ /usr/lib/rpm/check-rpaths /usr/lib/rpm/check-
  buildroot
+ /usr/lib/rpm/brp-compress
+ /usr/lib/rpm/brp-strip
+ /usr/lib/rpm/brp-strip-static-archive
+ /usr/lib/rpm/brp-strip-comment-note
Processing files: paneer-butter-masala-2.0-1
Executing(%doc): /bin/sh -e /var/tmp/rpm-tmp.W4HNME
+ umask 022
+ cd /home/shaks/rpmbuild/BUILD
+ cd paneer-butter-masala
```

%install

```
...  
+ /usr/lib/rpm/check-rpaths /usr/lib/rpm/check-  
  buildroot  
+ /usr/lib/rpm/brp-compress  
+ /usr/lib/rpm/brp-strip  
+ /usr/lib/rpm/brp-strip-static-archive  
+ /usr/lib/rpm/brp-strip-comment-note  
Processing files: paneer-butter-masala-2.0-1  
Executing(%doc): /bin/sh -e /var/tmp/rpm-tmp.W4HNME  
+ umask 022  
+ cd /home/shaks/rpmbuild/BUILD  
+ cd paneer-butter-masala
```

%install

```
...
+ DOCDIR=/home/shaks/rpmbuild/BUILDROOT/paneer-butter-masala-2.0-1.
  i386/usr/share/doc/paneer-butter-masala-2.0
+ export DOCDIR
+ rm -rf /home/shaks/rpmbuild/BUILDROOT/paneer-butter-masala-2.0-1.
  i386/usr/share/doc/paneer-butter-masala-2.0
+ /bin/mkdir -p /home/shaks/rpmbuild/BUILDROOT/paneer-butter-masala-2.0-
  1.i386/usr/share/doc/paneer-butter-masala-2.0
+ cp -pr README /home/shaks/rpmbuild/BUILDROOT/paneer-butter-masala-2.0-
  1.i386/usr/share/doc/paneer-butter-masala-2.0
+ exit 0
Requires(rpmlib): rpmlib(CompressedFileNames) <=
  3.0.4-1 rpmlib(PayloadFilesHavePrefix) <= 4.0-1
Requires: libc.so.6 libc.so.6(GLIBC.2.0)
rtld(GNU_HASH)
```

%install

```
...  
+ DOCDIR=/home/shaks/rpmbuild/BUILDROOT/paneer-butter-masala-2.0-1.i386/usr/share/doc/paneer-butter-masala-2.0  
+ export DOCDIR  
+ rm -rf /home/shaks/rpmbuild/BUILDROOT/paneer-butter-masala-2.0-1.i386/usr/share/doc/paneer-butter-masala-2.0  
+ /bin/mkdir -p /home/shaks/rpmbuild/BUILDROOT/paneer-butter-masala-2.0-1.i386/usr/share/doc/paneer-butter-masala-2.0  
+ cp -pr README /home/shaks/rpmbuild/BUILDROOT/paneer-butter-masala-2.0-1.i386/usr/share/doc/paneer-butter-masala-2.0  
+ exit 0  
Requires(rpmlib): rpmlib(CompressedFileNames) <= 3.0.4-1 rpmlib(PayloadFilesHavePrefix) <= 4.0-1  
Requires: libc.so.6 libc.so.6(GLIBC.2.0)  
rtld(GNU_HASH)
```

%install

```
...
+ DOCDIR=/home/shaks/rpmbuild/BUILDROOT/paneer-butter-masala-2.0-1.
  i386/usr/share/doc/paneer-butter-masala-2.0
+ export DOCDIR
+ rm -rf /home/shaks/rpmbuild/BUILDROOT/paneer-butter-masala-2.0-1.
  i386/usr/share/doc/paneer-butter-masala-2.0
+ /bin/mkdir -p /home/shaks/rpmbuild/BUILDROOT/paneer-butter-masala-2.0-
  1.i386/usr/share/doc/paneer-butter-masala-2.0
+ cp -pr README /home/shaks/rpmbuild/BUILDROOT/paneer-butter-masala-2.0-
  1.i386/usr/share/doc/paneer-butter-masala-2.0
+ exit 0
Requires(rpmlib): rpmlib(CompressedFileNames) <=
  3.0.4-1 rpmlib(PayloadFilesHavePrefix) <= 4.0-1
Requires: libc.so.6 libc.so.6(GLIBC.2.0)
rtld(GNU_HASH)
```

%install

```
...
Processing files: paneer-butter-masala-debuginfo-2.0-1
Checking for unpackaged file(s):
  /usr/lib/rpm/check-files
  /home/shaks/rpmbuild/BUILDROOT/paneer-butter-
  masala-2.0-1.i386
Wrote: /home/shaks/rpmbuild/RPMS/i686/paneer-
  butter-masala-2.0-1.i686.rpm
Wrote: /home/shaks/rpmbuild/RPMS/i686/paneer-
  butter-masala-debuginfo-2.0-1.i686.rpm

Executing(%clean): /bin/sh -e
  /var/tmp/rpm-tmp.ZikFDy
+ cd /home/shaks/rpmbuild/BUILD
+ cd paneer-butter-masala
+ rm -rf /home/shaks/rpmbuild/BUILDROOT/paneer-
  butter-masala-2.0-1.i386
+ exit 0
```

%install

```
...
Processing files: paneer-butter-masala-debuginfo-2.0-1
Checking for unpackaged file(s):
  /usr/lib/rpm/check-files
  /home/shaks/rpmbuild/BUILDROOT/paneer-butter-
  masala-2.0-1.i386
Wrote: /home/shaks/rpmbuild/RPMS/i686/paneer-
  butter-masala-2.0-1.i686.rpm
Wrote: /home/shaks/rpmbuild/RPMS/i686/paneer-
  butter-masala-debuginfo-2.0-1.i686.rpm

Executing(%clean): /bin/sh -e
  /var/tmp/rpm-tmp.ZikFDy
+ cd /home/shaks/rpmbuild/BUILD
+ cd paneer-butter-masala
+ rm -rf /home/shaks/rpmbuild/BUILDROOT/paneer-
  butter-masala-2.0-1.i386
+ exit 0
```

%install

```
...
Processing files: paneer-butter-masala-debuginfo-2.0-1
Checking for unpackaged file(s):
  /usr/lib/rpm/check-files
  /home/shaks/rpmbuild/BUILDROOT/paneer-butter-
  masala-2.0-1.i386
Wrote: /home/shaks/rpmbuild/RPMS/i686/paneer-
  butter-masala-2.0-1.i686.rpm
Wrote: /home/shaks/rpmbuild/RPMS/i686/paneer-
  butter-masala-debuginfo-2.0-1.i686.rpm

Executing(%clean): /bin/sh -e
  /var/tmp/rpm-tmp.ZikFDy
+ cd /home/shaks/rpmbuild/BUILD
+ cd paneer-butter-masala
+ rm -rf /home/shaks/rpmbuild/BUILDROOT/paneer-
  butter-masala-2.0-1.i386
+ exit 0

$ ls ~/rpmbuild/RPMS/i686
```


%install

```
...
Processing files: paneer-butter-masala-debuginfo-2.0-1
Checking for unpackaged file(s):
  /usr/lib/rpm/check-files
  /home/shaks/rpmbuild/BUILDROOT/paneer-butter-
  masala-2.0-1.i386
Wrote: /home/shaks/rpmbuild/RPMS/i686/paneer-
  butter-masala-2.0-1.i686.rpm
Wrote: /home/shaks/rpmbuild/RPMS/i686/paneer-
  butter-masala-debuginfo-2.0-1.i686.rpm

Executing(%clean): /bin/sh -e
  /var/tmp/rpm-tmp.ZikFDy
+ cd /home/shaks/rpmbuild/BUILD
+ cd paneer-butter-masala
+ rm -rf /home/shaks/rpmbuild/BUILDROOT/paneer-
  butter-masala-2.0-1.i386
+ exit 0

$ ls ~/rpmbuild/RPMS/i686
paneer-butter-masala-2.0-1.i686.rpm
paneer-butter-masala-debuginfo-2.0-1.i686.rpm
```

summary

order	task	command
prepare	%prep	-bp
make	%build	-bc
serve	%install	-bi
package	.rpm	-bb

package of ingredients

.src.rpm

```
$ rpmbuild -bs paneer-butter-masala.spec
```

package of ingredients

.src.rpm

```
$ rpmbuild -bs paneer-butter-masala.spec
```

...

```
Wrote: /home/shaks/rpmbuild/SRPMS/paneer-butter-  
masala-2.0-1.src.rpm
```

summary

order	task	command
prepare	%prep	-bp
make	%build	-bc
serve	%install	-bi
package	.rpm	-bb
package of ingredients	.src.rpm	-bs

everything!

.src.rpm, and .rpm

```
$ rpmbuild -ba paneer-butter-masala.spec
```

everything!

.src.rpm, and .rpm

```
$ rpmbuild -ba paneer-butter-masala.spec
```

...

```
Wrote: /home/shaks/rpmbuild/SRPMS/paneer-butter-  
masala-2.0-1.src.rpm
```

.src.rpm, and .rpm

```
$ rpmbuild -ba paneer-butter-masala.spec
```

```
...
```

```
Wrote: /home/shaks/rpmbuild/SRPMS/paneer-butter-  
masala-2.0-1.src.rpm
```

```
$ ls ~/rpmbuild/RPMS/i686
```


.src.rpm, and .rpm

```
$ rpmbuild -ba paneer-butter-masala.spec
```

```
...
```

```
Wrote: /home/shaks/rpmbuild/SRPMS/paneer-butter-  
masala-2.0-1.src.rpm
```

```
$ ls ~/rpmbuild/RPMS/i686
```

```
paneer-butter-masala-2.0-1.i686.rpm
```

```
paneer-butter-masala-debuginfo-2.0-1.i686.rpm
```

progress

summary

order	task	command
prepare	%prep	-bp
make	%build	-bc
serve	%install	-bi
package	.rpm	-bb
package of ingredients	.src.rpm	-bs
everything	.rpm, .src.rpm	-ba

quality check

rpmlint

```
$ rpmlint paneer-butter-masala.spec
```

quality check

rpmlint

```
$ rpmlint paneer-butter-masala.spec
```

```
0 packages and 1 specfiles checked;  
0 errors, 0 warnings
```

quality check

rpmlint

```
$ rpmlint paneer-butter-masala.spec
```

```
0 packages and 1 specfiles checked;  
0 errors, 0 warnings
```

```
$ rpmlint paneer-butter-masala-2.0-1.i686.rpm
```

quality check

rpmlint

```
$ rpmlint paneer-butter-masala.spec
```

```
0 packages and 1 specfiles checked;  
0 errors, 0 warnings
```

```
$ rpmlint paneer-butter-masala-2.0-1.i686.rpm
```

```
1 packages and 0 specfiles checked;  
0 errors, 0 warnings.
```

quality check

rpmlint

```
$ rpmlint paneer-butter-masala.spec
```

```
0 packages and 1 specfiles checked;  
0 errors, 0 warnings
```

```
$ rpmlint paneer-butter-masala-2.0-1.i686.rpm
```

```
1 packages and 0 specfiles checked;  
0 errors, 0 warnings.
```

```
$ rpmlint paneer-butter-masala-2.0-1.src.rpm
```

quality check

rpmlint

```
$ rpmlint paneer-butter-masala.spec
```

```
0 packages and 1 specfiles checked;  
0 errors, 0 warnings
```

```
$ rpmlint paneer-butter-masala-2.0-1.i686.rpm
```

```
1 packages and 0 specfiles checked;  
0 errors, 0 warnings.
```

```
$ rpmlint paneer-butter-masala-2.0-1.src.rpm
```

```
1 packages and 0 specfiles checked;  
0 errors, 0 warnings.
```


list package contents

rpms

```
$ rpmqls ~/rpmbuild/RPMS/i686/paneer-butter-  
masala-2.0-1.i686.rpm
```

list package contents

rpms

```
$ rpmqls ~/rpmbuild/RPMS/i686/paneer-butter-  
masala-2.0-1.i686.rpm
```

```
-rwxr-xr-x /usr/bin/paneer-butter-masala  
drwxr-xr-x /usr/share/doc/paneer-butter-masala-2.0  
-rw-r--r-- /usr/share/doc/paneer-butter-masala-2.0/README
```

list package contents

rpmls

```
$ rpmls ~/rpmbuild/RPMS/i686/paneer-butter-  
masala-2.0-1.i686.rpm
```

```
-rwxr-xr-x /usr/bin/paneer-butter-masala  
drwxr-xr-x /usr/share/doc/paneer-butter-masala-2.0  
-rw-r--r-- /usr/share/doc/paneer-butter-masala-2.0/README
```

rpm2cpio

```
$ rpm2cpio ~/rpmbuild/RPMS/i686/paneer-butter- masala-2.0-1.i686.rpm |  
cpio -idv
```

list package contents

rpmls

```
$ rpmls ~/rpmbuild/RPMS/i686/paneer-butter-  
masala-2.0-1.i686.rpm
```

```
-rwxr-xr-x /usr/bin/paneer-butter-masala  
drwxr-xr-x /usr/share/doc/paneer-butter-masala-2.0  
-rw-r--r-- /usr/share/doc/paneer-butter-masala-2.0/README
```

rpm2cpio

```
$ rpm2cpio ~/rpmbuild/RPMS/i686/paneer-butter- masala-2.0-1.i686.rpm |  
cpio -idv
```

```
./usr/bin/paneer-butter-masala  
10 blocks
```

taste

install

```
$ sudo yum install paneer-butter-masala-2.0-1.i686.rpm
```

taste

install

```
$ sudo yum install paneer-butter-masala-2.0-1.i686.rpm
```

```
...
```

```
Installing      : paneer-butter-masala                1/1
```

```
Installed:
```

```
paneer-butter-masala.i686 0:2.0-1
```

```
Complete!
```

taste

install

```
$ sudo yum install paneer-butter-masala-2.0-1.i686.rpm
```

```
...
```

```
Installing      : paneer-butter-masala                1/1
```

```
Installed:
```

```
paneer-butter-masala.i686 0:2.0-1
```

```
Complete!
```

query

```
$ rpm -qa | grep paneer
```

taste

install

```
$ sudo yum install paneer-butter-masala-2.0-1.i686.rpm
...
Installing      : paneer-butter-masala                1/1

Installed:
  paneer-butter-masala.i686 0:2.0-1

Complete!
```

query

```
$ rpm -qa | grep paneer
paneer-butter-masala-2.0-1.i686
```


taste

install

```
$ sudo yum install paneer-butter-masala-2.0-1.i686.rpm
...
Installing      : paneer-butter-masala                1/1

Installed:
  paneer-butter-masala.i686 0:2.0-1

Complete!
```

query

```
$ rpm -qa | grep paneer
paneer-butter-masala-2.0-1.i686
```

test

```
$ paneer-butter-masala
```

taste

install

```
$ sudo yum install paneer-butter-masala-2.0-1.i686.rpm
...
Installing      : paneer-butter-masala                1/1

Installed:
  paneer-butter-masala.i686 0:2.0-1

Complete!
```

query

```
$ rpm -qa | grep paneer
paneer-butter-masala-2.0-1.i686
```

test

```
$ paneer-butter-masala
You gotta be kidding me!
```

taste

install

```
$ sudo yum install paneer-butter-masala-2.0-1.i686.rpm
...
Installing      : paneer-butter-masala                1/1

Installed:
  paneer-butter-masala.i686 0:2.0-1

Complete!
```

query

```
$ rpm -qa | grep paneer
paneer-butter-masala-2.0-1.i686
```

test

```
$ paneer-butter-masala
You gotta be kidding me!
```

uninstall

```
$ sudo yum remove paneer-butter-masala
```

extract sources

```
$ rpmbuild -bp paneer-butter-masala.spec
```

extract sources

```
$ rpmbuild -bp paneer-butter-masala.spec
```

```
Executing(%prep): /bin/sh -e /var/tmp/rpm-tmp.8veaUx
+ umask 022
+ cd /home/shaks/rpmbuild/BUILD
+ cd /home/shaks/rpmbuild/BUILD
+ rm -rf paneer-butter-masala
+ /usr/bin/bzip2 -dc /home/shaks/rpmbuild/SOURCES/
paneer-butter-masala-2.0.tar.bz2
+ /bin/tar -xf -
+ STATUS=0
+ '[' 0 -ne 0 - ]'
+ cd paneer-butter-masala
+ /bin/chmod -Rf a+rX,u+w,g-w,o-w .
+ exit 0
```

extract sources

```
$ rpmbuild -bp paneer-butter-masala.spec
```

```
Executing(%prep): /bin/sh -e /var/tmp/rpm-tmp.8veaUx
```

```
+ umask 022
```

```
+ cd /home/shaks/rpmbuild/BUILD
```

```
+ cd /home/shaks/rpmbuild/BUILD
```

```
+ rm -rf paneer-butter-masala
```

```
+ /usr/bin/bzip2 -dc /home/shaks/rpmbuild/SOURCES/  
paneer-butter-masala-2.0.tar.bz2
```

```
+ /bin/tar -xf -
```

```
+ STATUS=0
```

```
+ '[' 0 -ne 0 ']'
```

```
+ cd paneer-butter-masala
```

```
+ /bin/chmod -Rf a+rX,u+w,g-w,o-w .
```

```
+ exit 0
```

make changes

```
$ cd ~/rpmbuild/BUILD/paneer-butter-masala
```

patch

make changes

```
$ cd ~/rpmbuild/BUILD/paneer-butter-masala
```

```
$ cp paneer-butter-masala.c paneer-butter-masala.c.fix
```


patch

make changes

```
$ cd ~/rpmbuild/BUILD/paneer-butter-masala
```

```
$ cp paneer-butter-masala.c paneer-butter-masala.c.fix
```

Update changes or fix to paneer-butter-masala.c

patch

create patch

```
$ cd ~/rpmbuild/BUILD
```

patch

create patch

```
$ cd ~/rpmbuild/BUILD  
$ gendiff paneer-butter-masala .fix
```

patch

create patch

```
$ cd ~/rpmbuild/BUILD
$ gendiff paneer-butter-masala .fix
diff -up paneer-butter-masala/paneer-butter-masala.c.fix
    paneer-butter-masala/paneer-butter-masala.c
--- paneer-butter-masala/paneer-butter-masala.c.fix 2009-05-10
    00:12:44.000000000 +0530
+++ paneer-butter-masala/paneer-butter-masala.c 2009-05-10
    00:13:23.000000000 +0530
@@ -2,6 +2,6 @@
     int main (int argc, char **argv)
     {
- printf ("You gotta be kidding me!\n");
+ printf ("You gotta be really kidding me!\n");
     return 0;
     }
```

patch

create patch

```
$ cd ~/rpmbuild/BUILD
$ gendiff paneer-butter-masala .fix
diff -up paneer-butter-masala/paneer-butter-masala.c.fix
    paneer-butter-masala/paneer-butter-masala.c
--- paneer-butter-masala/paneer-butter-masala.c.fix 2009-05-10
    00:12:44.000000000 +0530
+++ paneer-butter-masala/paneer-butter-masala.c 2009-05-10
    00:13:23.000000000 +0530
@@ -2,6 +2,6 @@
    int main (int argc, char **argv)
    {
- printf ("You gotta be kidding me!\n");
+ printf ("You gotta be really kidding me!\n");
    return 0;
    }
```

patch

create patch

```
$ cd ~/rpmbuild/BUILD
$ gendiff paneer-butter-masala .fix
diff -up paneer-butter-masala/paneer-butter-masala.c.fix
    paneer-butter-masala/paneer-butter-masala.c
--- paneer-butter-masala/paneer-butter-masala.c.fix 2009-05-10
    00:12:44.000000000 +0530
+++ paneer-butter-masala/paneer-butter-masala.c 2009-05-10
    00:13:23.000000000 +0530
@@ -2,6 +2,6 @@
     int main (int argc, char **argv)
     {
- printf ("You gotta be kidding me!\n");
+ printf ("You gotta be really kidding me!\n");
     return 0;
     }

$ gendiff paneer-butter-masala .fix >
~/rpmbuild/SOURCES/paneer-fix.patch
```

update .spec file

```
Update paneer-butter-masala.spec
```

```
...
```

```
Release: 2%{?dist}
```

update .spec file

```
Update paneer-butter-masala.spec
...
Release: 2%{?dist}
...
Patch0: paneer-fix.patch
```


update .spec file

```
Update paneer-butter-masala.spec
...
Release: 2%{?dist}
...
Patch0: paneer-fix.patch
...


```

%prep
%setup -qn %{name}
%patch0 -p1 -b .c

```


```

update .spec file

```
Update paneer-butter-masala.spec
...
Release: 2%{?dist}
...
Patch0: paneer-fix.patch
...
%prep
%setup -qn %{name}
%patch0 -p1 -b .c
```

update .spec file

```
Update paneer-butter-masala.spec
...
Release: 2%{?dist}
...
Patch0: paneer-fix.patch
...
%prep
%setup -qn %{name}
%patch0 -p1 -b .c
...
%changelog
* Fri May 2 2009 Shakthi Kannan
  <shakthimaan [AT] gmail DOT com> 2.0-2
- Fixed Paneer Butter Masala.

* Fri May 1 2009 Shakthi Kannan
  <shakthimaan [AT] gmail DOT com> 2.0-1
- Packaged Paneer Butter Masala.
```

update .spec file

```
Update paneer-butter-masala.spec
...
Release: 2%{?dist}
...
Patch0: paneer-fix.patch
...
%prep
%setup -qn %{name}
%patch0 -p1 -b .c
...
%changelog
* Fri May 2 2009 Shakthi Kannan
  <shakthimaan [AT] gmail DOT com> 2.0-2
- Fixed Paneer Butter Masala.

* Fri May 1 2009 Shakthi Kannan
  <shakthimaan [AT] gmail DOT com> 2.0-1
- Packaged Paneer Butter Masala.
```

patch

test it

```
$ rpmbuild -bp paneer-butter-masala.spec
```

patch

test it

```
$ rpmbuild -bp paneer-butter-masala.spec
Executing(%prep): /bin/sh -e /var/tmp/rpm-tmp.OQRqXh
+ umask 022
+ cd /home/shaks/rpmbuild/BUILD
+ cd /home/shaks/rpmbuild/BUILD
+ rm -rf paneer-butter-masala
+ /usr/bin/bzip2 -dc /home/shaks/rpmbuild/SOURCES/paneer-butter-
  masala-2.0.tar.bz2
+ /bin/tar -xf -
+ STATUS=0
+ '[' 0 -ne 0 -n ]'
+ cd paneer-butter-masala
+ /bin/chmod -Rf a+rX,u+w,g-w,o-w .
+ echo 'Patch #0 (paneer-fix.patch):'
Patch #0 (paneer-fix.patch):
+ /bin/cat /home/shaks/rpmbuild/SOURCES/paneer-fix.patch
+ /usr/bin/patch -s -p1 -b --suffix .c --fuzz=0
+ exit 0
```

patch

test it

```
$ rpmbuild -bp paneer-butter-masala.spec
Executing(%prep): /bin/sh -e /var/tmp/rpm-tmp.OQRqXh
+ umask 022
+ cd /home/shaks/rpmbuild/BUILD
+ cd /home/shaks/rpmbuild/BUILD
+ rm -rf paneer-butter-masala
+ /usr/bin/bzip2 -dc /home/shaks/rpmbuild/SOURCES/paneer-butter-
masala-2.0.tar.bz2
+ /bin/tar -xf -
+ STATUS=0
+ '[' 0 -ne 0 -e 0 -e 0 ']'
+ cd paneer-butter-masala
+ /bin/chmod -Rf a+rX,u+w,g-w,o-w .
+ echo 'Patch #0 (paneer-fix.patch):'
Patch #0 (paneer-fix.patch):
+ /bin/cat /home/shaks/rpmbuild/SOURCES/paneer-fix.patch
+ /usr/bin/patch -s -p1 -b --suffix .c --fuzz=0
+ exit 0
```

patch

test it

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+ /usr/bin/patch -s -p1 -b --suffix .c --fuzz=0
+ exit 0
```


macros

macro	expands to
%{_bindir}	/usr/bin
%{_builddir}	~/rpmbuild/BUILD
%{buildroot}	~/rpmbuild/BUILDROOT or /var/tmp/...
%{_datadir}	/usr/share
%{_defaultdocdir}	/usr/share/doc
%{dist}	.fc10 on Fedora 10
%{_includedir}	/usr/include
%{_infodir}	/usr/share/info
%{_libdir}	/usr/lib
%{_localstatedir}	/var
%{name}	Name of package
%{_sbindir}	/usr/sbin
%{_sysconfdir}	/etc

Example:1

`%global destdir /opt`

Example:1

```
%global destdir /opt
```

```
%install
```

```
mkdir -p $RPM_BUILD_ROOT%{destdir}
```

```
cd $RPM_BUILD_ROOT%{destdir}
```

Example:1

```
%global destdir /opt  
%install  
mkdir -p $RPM_BUILD_ROOT%{destdir}  
cd $RPM_BUILD_ROOT%{destdir}
```

Example:2

```
%global packname foo
```

Example:1

```
%global destdir /opt  
%install  
mkdir -p $RPM_BUILD_ROOT%{destdir}  
cd $RPM_BUILD_ROOT%{destdir}
```

Example:2

```
%global packname foo  
Name: python-%{packname}
```

macros

Example:1

```
%global destdir /opt
%install
mkdir -p $RPM_BUILD_ROOT%{destdir}
cd $RPM_BUILD_ROOT%{destdir}
```

Example:2

```
%global packname foo
Name: python-%{packname}
```

macro	location
System macros	/usr/lib/rpm
Vendor macros	/etc/rpm
User defined macros	~/.rpmmacros

macros

Example:1

```
%global destdir /opt
%install
mkdir -p $RPM_BUILD_ROOT%{destdir}
cd $RPM_BUILD_ROOT%{destdir}
```

Example:2

```
%global packname foo
Name: python-%{packname}
```

macro	location
System macros	/usr/lib/rpm
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<http://fedoraproject.org/wiki/Packaging:RPMMacros>

sticky notes

- Create a separate user for building packages and use mock.

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- “# %foo” in .spec could cause the parser to ignore the # and process the macro.

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- “# %foo” in .spec could cause the parser to ignore the # and process the macro.
- **Building with Koji:**
<http://fedoraproject.org/wiki/Koji>

sticky notes

- Create a separate user for building packages and use mock.
- “# %foo” in .spec could cause the parser to ignore the # and process the macro.
- Building with Koji:
<http://fedoraproject.org/wiki/Koji>
- **Mock:**
https://fedoraproject.org/wiki/Using_Mock_to_test_package_builds

i want more!

references

Package Guidelines:

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Package Review Process:

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Packaging RPM Workflow

<http://shakthimaan.com/downloads/glv/howtos/packaging-rpm-workflow.html>

package maintainers

Internet Relay Chat

`#fedora-india #fedora-devel (irc.freenode.net)`

package maintainers

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Mailing lists

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devel@lists.fedoraproject.org
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Use the Internet.