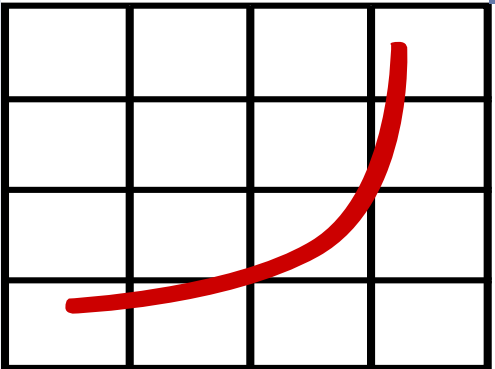




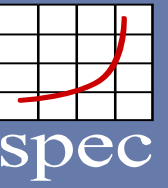
How to acquire and install SPEC benchmarks?

Guido Juckeland, Technische Universität Dresden



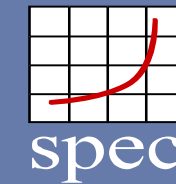
spec

Contents



- Benchmark acquisition and licensing
- Installation

Let's go shopping



Benchmark Suite	Commercial	Non-Profit
CPU2006 V1.2	\$800	\$400
ACCEL V1.1	\$2,000	\$800
OMP2012 V1.0	\$2,000	\$800
MPI2007 V2.0.1	\$2,000	\$800
SPECpower_ssj2008 V1.12	\$1,600	\$400
SPECviewperf® 12.0.2	\$2,500	free

Members receive benchmarks for free 😊



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Purchase Current SPEC Benchmark Suites

SPEC benchmarking software is available via download through SWREG.

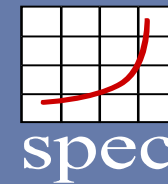
ACCEL V1.0	Purchase (\$2000) To purchase via download at the non-profit (\$800) pricing, contact the SPEC office for further information and to verify eligibility.
Chauffeur WDK V1.1.0	Purchase (\$50)
CPU2006 V1.2	Purchase (\$800) To purchase via download at the upgrade (\$400) or non-profit (\$200) pricing, contact the SPEC office for further information and to verify eligibility.
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MPI2007 V2.0.1	Purchase (\$2000) To purchase via download at the non-profit (\$650) or upgrade (\$250) pricing, contact the SPEC office for further information and to verify eligibility.
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SERT V1.1.0	Purchase (\$2800) To purchase via download at the non-profit (\$950) pricing, contact the SPEC office for further information and to verify eligibility.
SFS2014 V1.0	Purchase (\$2000) To purchase via download at the non-profit (\$500) pricing, contact the SPEC office for further information and to verify eligibility.
SPECviewperf for 32-bit Mac OS X	Purchase (\$2500 - Commercial license only)

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<http://spec.org/order.html>

Downloading as a member



The screenshot shows a web browser window with the address bar displaying `pro.spec.org/private/hpg/benchmarks/accel`. The page title is "Index of /private/hpg/benchmarks/accel". The page content shows a directory listing with columns "Name", "Last modified", and "Size". The listing includes a "Parent Directory" link and two files: `accel-1.0.iso.xz` (1.8G) and `accel-1.0.iso.xz.md5` (51). A blue callout bubble points to the `accel-1.0.iso.xz` file with the text "Typically an ISO-image". Below the directory listing, the footer text reads "Apache/2.2.15 (CentOS) Server at pro.spec.org Port 443".

Below the browser window, a terminal window shows the command `wget` being used to download the file. The output shows the file being resolved, connected to, and downloaded successfully. The progress bar indicates 53% completion.

```
gjackela@login1:~> wget https://pro.spec.org/private/hpg/accel/accelv1/src/accel-1.1.iso.xz
--2015-09-08 07:38:59-- https://pro.spec.org/private/hpg/accel/accelv1/src/accel-1.1.iso.xz
Resolving pro.spec.org... 208.45.140.196
Connecting to pro.spec.org|208.45.140.196|:443... connected.
HTTP request sent, awaiting response... 401 Authorization Required
Reusing existing connection to pro.spec.org:443.
HTTP request sent, awaiting response... 200 OK
Length: 2053625004 (1.9G) [application/x-xz]
Saving to: 'accel-1.1.iso.xz'

53% [=====>] 1,096,695,808 1.37M/s eta 6m 14s
```

Unpacking (when you can mount ISO images)

```
$> md5sum -c accel-1.1.iso.xz.md5  
$> xz -d accel-1.1.iso.xz  
$> mkdir spec-iso  
$> mount -t iso9660 -o loop,ro accel-1.1.iso spec-iso
```

Check for correct
download

Unpack archive

Mount ISO image
in subdirectory

Useful hint:

Generate a subdirectory
for every benchmark
suite! Move the
downloads there!

Unpacking (when you cannot mount ISO images)

- Use the tar.xz file (available to members and upon requests)

```
$> md5sum -c accel-1.1.tar.xz.md5  
$>  
$> tar xvJf accel-1.1.tar.xz  
$>
```

Check for correct
download

Unpack archive

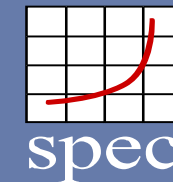
- Extract the sources from the ISO
 - Get the ISO on your local machine and mount it

```
$> cd $MOUNTPATH/install_archives  
$>  
$> scp accel.tar.xz* your-machine:.  
$>
```

Find the tar-ball

Upload it to target
machine

Installation



```
~/.ssh
SPEC ACCEL Installation
Top of the ACCEL tree is '/N/u/gjuckela/BigRed2/spec'
Installing FROM /N/u/gjuckela/BigRed2/spec
Installing TO /N/u/gjuckela/BigRed2/spec
Is this correct? (Please enter 'yes' or 'no')
yes
The following toolset will be installed on your platform. If the
automatically selected toolset does not work on your platform, please re-run install.sh and
exclude that toolset.
The toolset selected will not affect your benchmark scores.

linux-suse10-amd64      For 64-bit AMD64/EM64T Linux systems running
                        SuSE Linux 10 or later, and other
                        compatible Linux distributions, including
                        some versions of RedHat Enterprise Linux
                        and Oracle Linux Server.

                        Built on SuSE Linux 10 with
                        GCC v4.1.0 (SuSE Linux)

linux-redhat72-ia32     For x86, IA-64, EM64T, and AMD64-based Linux
                        systems with GLIBC 2.2.4+.
                        Built on RedHat 7.2 (x86) with gcc 3.1.1

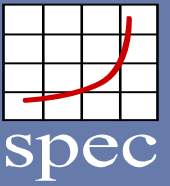
=====
Attempting to install the linux-suse10-amd64 toolset...

checking the integrity of your source tree...
```

Type „yes“ and hit
Enter

Execute `./install.sh`

Loading SPEC tools



```
~/.ssh
Built on SuSE Linux 10 with
GCC v4.1.0 (SuSE Linux)

linux-redhat72-ia32    For x86, IA-64, EM64T, and AMD64-based Linux
                      systems with GLIBC 2.2.4+.
                      Built on RedHat 7.2 (x86) with gcc 3.1.1

=====
Attempting to install the linux-suse10-amd64 toolset...

Checking the integrity of your source tree...

Checksums are all okay.
unpacking binary tools for linux-suse10-amd64...
checking the integrity of your binary tools...
Checksums are all okay.
Testing the tools installation (this may take a minute)

.....o.....
.....o.....

Installation successful. Source the shrc or cshrc in
/N/u/gjuckela/BigRed2/spec
to set up your environment for the benchmark.

gjuckela@login2:~/spec> . shrc
gjuckela@login2:~/spec> █
```

This all happens automatically

Without this nothing will work!!