What can Test Clutch teach us about curl tests?

Daniel Fandrich curl://up 2025



What is Test Clutch?

- Tracks and analyzes automated regression test results
- Retrieves logs from CI services
- Comments on PR test results
- All Open Source



Reports

- Test Clutch periodically generates static reports
- curl reports are public at https://testclutch.curl.se/
- Updated 4 times a day (currently)



Test report for https://github.com/curl/curl

Report generated Wed, 30 Apr 2025 00:55:47 +0000 covering runs over the past 90 days

Hover over cells for more information. successful test run successful older test run failed test run aborted test run disabled job new day

[circle] CircleCI / arm-openssl (curl) [circle] CircleCI / arm-openssl-c-ares (curl) [circle] CircleCI / openssl-c-ares (curl)

Job Name

1	Flake (Older ru	uns –	→																															
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ITTP-	flaky	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<u>851</u>	-	-	-	-	-	-	-	-	-	<u>851</u>	-	<u>851</u>	-	-	-	-	-
ITTP-	flaky	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<u>726</u>	-	-	-	-	-	-	-	-	-	<u>726</u>	-	<u>726</u>	-	-	-	-	-
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ırl)		-	-	1672 Tue, 29 Apr 2025 20:47:44 +0000 3fcddc83							dc83!	5	<u>1672</u>	-	<u>1672</u>	<u>1672</u>	-	-	<u>1672</u>	-	-	<u>1672</u>	<u>1672</u>	-	-	<u>1672</u>	<u>1672</u>	<u>1672</u>	-	-	-	<u>1672</u>	<u>1672</u>		
(ares		-	-	-		Success: 1668, Failed: 1, Attempted: 1669 Result: failure								-	-	-	<u>1672</u>	-	<u>1672</u>	-	-	-	-	<u>1672</u>	-	-	<u>1672</u>	<u>1672</u>	<u>1672</u>	-	-	-	-	<u>1672</u>	
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[circle] CircleCI / openssl-libssh (curl) [circle] CircleCI / openssl-no-proxy (curl) [circle] CircleCI / x86-openssl (curl)

[curlauto] Kirill Sokolovsky / Linux 4.1.15 x86_64 gcc 13.2.1 Gentoo (curl)

[curlauto] Dan Fandrich / Linux Debian RISC-V 64-bit (curl)

[curlauto] Marcel Raad / MSYS2 MinGW32 WinThreads SSPI HTTPonly WinSSL (curl)

[curlauto] Marcel Raad / MSYS2 MinGW64 WinThreads SSPI HTTPonly OpenSSL --disable-proxy --disable-crypto-auth (curl)

[curlauto] Michael Kaufmann / NetBSD 10.1 ARM big-endian gcc 10.5.0 (curl)

[curlauto] Michael Kaufmann / NetBSD 9.3 ARM gcc 7.5.0 (curl)

[curlauto] Dagobert / Solaris 10 I386 GCC 4.9.2 + OpenCSW (ares resolver) (curl)

[curlauto] Dagobert / Solaris 10 I386 GCC 4.9.2 + OpenCSW (threaded resolver) (curl)

[curlauto] Dagobert / Solaris 10 I386 GCC 4.9.2 + OpenCSW (curl)

[curlauto] Dagobert / Solaris 10 SPARC GCC 4.9.2 + OpenCSW (ares resolver) (curl)

[curlauto] Dagobert / Solaris 10 SPARC GCC 4 9.2 + OpenCSW https://curl.se/dev/log.cgi?id=20250429220211-1673893

Test failure counts for test runs on https://github.com/curl/curl

Report generated Tue, 29 Apr 2025 12:52:07 +0000 covering runs over the past 30 days.

	Test	Result	Count	Examples
580		UNKNOWN	500	Log Log Log Log Log
1632		FAILIGNORE	E 472	Log Log Log Log Log
565		UNKNOWN	396	<u>Log Log Log Log Log</u>
576		UNKNOWN	394	<u>Log Log Log Log Log</u>
639		UNKNOWN	389	<u>Log Log Log Log Log</u>
581		UNKNOWN	384	<u>Log Log Log Log Log</u>
641		UNKNOWN	376	<u>Log Log Log Log Log</u>
640		UNKNOWN	361	<u>Log Log Log Log Log</u>
574		UNKNOWN	353	<u>Log Log Log Log Log</u>
642		UNKNOWN	353	<u>Log Log Log Log Log</u>
578		UNKNOWN	343	<u>Log Log Log Log Log</u>
2004		FAILIGNORE	2 340	<u>Log Log Log Log Log</u>
643		UNKNOWN	330	<u>Log Log Log Log Log</u>
1631		FAILIGNORE	2 317	<u>Log Log Log Log Log</u>
567		UNKNOWN	315	<u>Log Log Log Log Log</u>
638		UNKNOWN	290	<u>Log Log Log Log Log</u>
632		UNKNOWN	273	<u>Log Log Log Log Log</u>
611		FAILIGNORE	E 251	<u>Log Log Log Log Log</u>
626		FAILIGNORE	E 250	<u>Log Log Log Log Log</u>
604		FAILIGNORE	E 249	<u>Log Log Log Log</u>
606		FAILIGNORE	248	<u>Log Log Log Log Log</u>
610		FAILIGNORE	248	<u>Log Log Log Log Log</u>
634		FAILIGNORE	248	<u>Log Log Log Log Log</u>
582		FAILIGNORE	E 247	<u>Log Log Log Log Log</u>
613		FAILIGNORE	247	<u>Log Log Log Log Log</u>
627		FAILIGNORE	247	<u>Log Log Log Log Log</u>
637		FAILIGNORE	E 247	<u>Log Log Log Log</u>

Configured Test Job Features on https://github.com/curl/curl

Report generated Tue, 29 Apr 2025 12:39:47 +0000 covering jobs over the past 6 days.

job has this feature

job does not have this feature

- job does not have this mutually exclusive feature

2 unable to determine if job has this feature

? unable to determine if job has this binary feature (but likely no)

The job links to the results of the latest run.

Jøb	arch: aarch64	arch: 4evbarn	arch: 1 i386	arch: sparc	arch: x86_64	targetarch: aarch64	targetarch: armv7eb	targetarch: i386	targetarch: i686	targetarch sparc	targetarch x86_64	os: cygwin		os: freebsd		os: msys :		os: openbsd	os: solaris	buildsystem: automake	buildsystem: cmake/make	buildsystem: cmake/msbuild	buildsystem: cmake/ninja	compiler: AppleClang	compiler: clang	compiler: gcc	compiler: IntelC
[circle] CircleCI / arm-openssl (curl)	1	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	1	-
[circle] CircleCI / arm-openssl-c-ares (curl)	1	-	-	-	-	1	-	-	-	-	-	-	-	-	~	-	-	-	-	*	-	-	-	-	-	~	-
[circle] CircleCI / openssl-c-ares (curl)	-	-	-	-	1	-	-	-	-	-	1	-	-	-	1	-	-	-	-	1	-	-	-	-	-	1	-
[circle] CircleCI / openssl-libssh (curl)	-	-	-	-	1	-	-	-	-	-	1	-	-	-	1	-	-	-	-	*	-	-	-	-	-	~	-
[circle] CircleCI / openssl-no-proxy (curl)	-	-	-	-	1	-	-	-	-	-	1	-	-	-	1	-	-	-	-	1	-	-	-	-	-	~	-
[circle] CircleCI / x86-openssl (curl)	-	-	-	-	1	-	-	-	-	-	1	-	-	-	1	-	-	-	1	1	-	-	-	-	-	1	-
[curlauto] Kirill Sokolovsky / Linux 4.1.15 x86 64 gcc 13.2.1 Gentoo (curl)	-	-	-	Ι	1	-	-	-	-	-	~	-	-	-	~	-	-	-	I	*	-	-	-	-	-	~	-
[curlauto] Marcel Raad / MSYS2 MinGW32 WinThreads SSPI HTTP- only WinSSL (curl)	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	~	-	-	Ι	*	-	-	-	-	-	~	-
[curlauto] Marcel Raad / MSYS2 MinGW64 WinThreads SSPI HTTP- only OpenSSLdisable-proxydisable-crypto-auth (curl)	-	-	-	-	1	-	-	-	-	-	~	-	-	-	-	1	-	-	Ι	*	-	-	-	-	-	~	-
[curlauto] Michael Kaufmann / NetBSD 10.1 ARM big-endian gcc 10.5.0 (curl)	-	~	-	-	-	-	1	-	-	-	-	-	-	I	-	-	1	-	-	1	-	-	-	-	I	1	-
[curlauto] Dagobert / Solaris 10 I386 GCC 4.9.2 + OpenCSW (ares resolver) (curl)	-	-	1	-	-	-	-	1	I	-	-	-	-	I	I	-	-	-	1	*	-	-	-	I	I	*	-
[curlauto] Dagobert / Solaris 10 I386 GCC 4.9.2 + OpenCSW (threaded resolver).(curl)	-	-	1	-	-	-	-	1	I	-	-	-	-	I	I	-	-	-	1	*	-	I	-	I	I	*	-
[curlauto] Dagobert / Solaris 10 I386 GCC 4.9.2 + OpenCSW (curl)	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	1	-
[curlauto] Dagobert / Solaris 10 SPARC GCC 4.9.2 + OpenCSW (ares resolver) (curl)	-	-	-	~	-	-	-	-	-	1	-	-	-	-	-	-	-	-	κ.	*	-	-	-	-	-	~	-
[curlauto] Dagobert / Solaris 10 SPARC GCC 4.9.2 + OpenCSW (threaded resolver) (curl)	-	-	-	1	I	-	-	I	-	1	-	-	-	I	I	-	-	-	~	*	I	-	-	-	I	*	-
[curlauto] Dagobert / Solaris 10 SPARC GCC 4.9.2 + OpenCSW (curl)	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	1	-
[curlauto] Dagobert / Solaris 11 SPARC GCC 4.9.2 + OpenCSW (ares resolver) (curl)	-	-	-	1	-	-	-	I	-	1	-	-	-	-	-	-	-	-	~	1	-	-	-	-	-	*	-
[curlauto] Dagobert / Solaris 11 SPARC GCC 4.9.2 + OpenCSW (threaded resolver).(curl)	-	-	-	~	I	-	-	-	-	1	-	-	-	-	I	-	-	-	κ.	*	-	-	-	-	-	~	-
[curlauto] Dagobert / Solaris 11 SPARC GCC 4.9.2 + OpenCSW (curl)	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	1	-
[gha] dist / maketgz-and-verify-in-tree (curl)	-	-	-	-	1	-	-	-	-	-	1	-	-	-	1	-	-	-	-	*	-	-	-	-	-	~	-
[gha] dist / verify-out-of-tree-autotools-debug_(curl)	-	-	-	-	1	-	-	-	-	-	1	-	-	-	1	-	-	-	-	1	-	-	-	-	1	1	-
[gha] dist / verify-out-of-tree-docs (curl)	1	-	-	-	1	-	-	-	-	-	1	-	-	-	1	-	-	-	1	1	-	-	-	-	-	1	-
[gha] Linux HTTP/3 / AM gnutls (curl)	-	-	-	-	1	-	-	-	-	-	1	-	-	-	1	-	-	-	-	1	-	-	-	-	-	1	-
[gha] Linux HTTP/3 / AM_gnutls (pytest)	-	-	-	-	1	-	-	-	-	-	1	-	-	-	1	-	-	-	-	1	-	-	-	-	-	1	-
[gha] Linux HTTP/3 / AM openssl-quic (curl)	-	-	-	-	1	-	-	-	-	-	1	-	-	-	1	-	-	-	-	1	-	-	-	-	-	1	-
[gha] Linux HTTP/3 / AM openssl-quic (pytest)	-	-	-	-	1	-	-	-	-	-	1	-	-	-	1	-	-	-	-	1	-	-	-	-	-	1	

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Metadata for test runs on https://github.com/curl/curl

Report generated Tue, 29 Apr 2025 18:48:59 +0000 covering runs over the past 90 days.

Expand each name to see all its values among recent test runs. Note that not all test runs expose all metadata.

▼ arch

- aarch64
- amd64
- arm64
- evbarm
- i386
- riscv64
- sparc
- x86_64
- branch
- buildcode
- buildsystem
- ► buildsystemver
- checkrepo
- ciarch
- cicores
- cidef
- ▶ cijob
- ciname
- cinodetype
- cios
- ciresult
- cistep
- cistepid
- cistepresult
- ► commit
- ▼ compiler
 - APPLECLANG
 - AppleClang
 - CLANG
 - Clang

Reports: Statistics

Test run statistics for test runs on https://github.com/curl/curl Time spent running tests per day: 723401 sec./day (8.4 Report generated Tue, 29 Apr 2025 01:33:53 +0000 covering runs over the past 368 days.

Days of stats: 369

Most recent run: Fri. 25 Apr 2025 23:48:01 +0000 Oldest run used: Thu, 25 Apr 2024 07:46:46 +0000 Number of ait commits tested: 2404 Number of unique configured test jobs: 401

Test runs: 260702

Runs per day: 707.0

Runs by test result: 260702 (100%)

- success: 252564 (97%)
- failure: 7084 (2.7%)
- truncated: 1054 (0.40%)

Tests run: 354846350

Tests executed per day: 962295.2 Tests considered: 372440284 (100%)

- PASS: 354485469 (95%) .
- FAIL: 9029 (0.0024%)
- SKIP: 17593934 (4.7%) ٠
- FAILIGNORE: 273845 (0.074%) ٠
- UNKNOWN: 78007 (0.021%)

Total clock time spent running tests: 266754193 sec. (3087 days)

davs/dav)

Average time spent running each test: 0.752 sec./test Longest test runs:

- curl: 13118 sec.
- pytest: 243 sec. Shortest test runs:
- curl: 16 sec.
- pytest: 72 sec.

Average test runs:

- curl: 420 sec.
- pytest: 125 sec.

Most number of unique tests attempted in one run by test format:

- curl: 1749
- pytest: 673

Average number of tests attempted in one run by test format:

- curl: 1480.4
- pytest: 451.4

Runs by CI system: 260702 (100%)

- appveyor: 1327 (0.51%)
- azure: 12127 (4.7%)
- circle: 19714 (7.6%)
- cirrus: 444 (0.17%)
- curlauto: 10650 (4.1%) .

gha: 216440 (83%) ٠ Runs by build system: 240593 (100%)

- automake: 171781 (71%)
- cmake/make: 9741 (4.0%) .
- cmake/msbuild: 10370 (4.3%)
- cmake/ninja: 48701 (20%) . Runs by test format: 260702 (100%)
- . curl: 230469 (88%)
- pytest: 30233 (12%)
- Runs by test mode: 230469 (100%)
- normal: 220198 (96%)
- torture: 10271 (4.5%)

Runs by operating systems: 260702 (100%)

- aix: 10 (0.0038%)
- cygwin: 7010 (2.7%)
- darwin: 69613 (27%)
- freebsd: 2120 (0.81%)
- linux: 138805 (53%)
- msys: 27284 (10%)
- netbsd: 2359 (0.90%)
- openbsd: 1988 (0.76%)
- solaris: 11513 (4.4%)

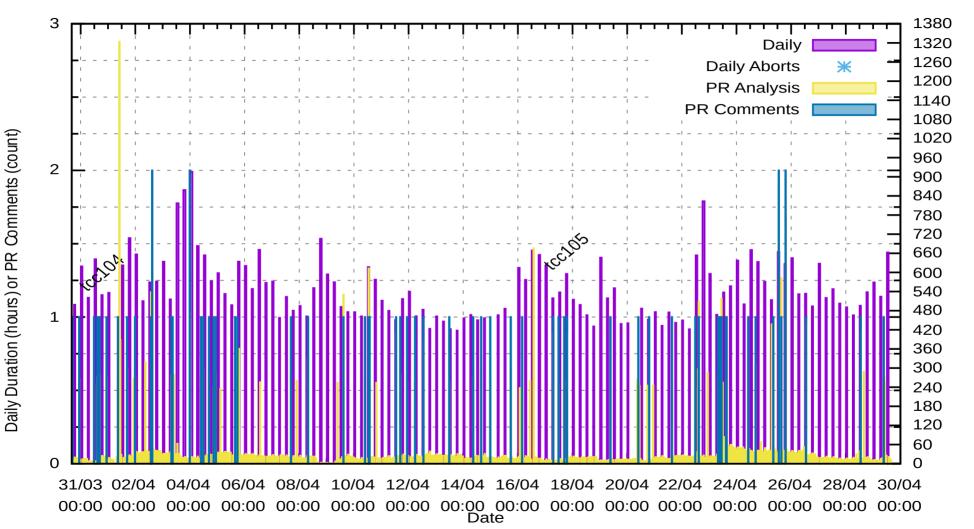


Logs

- Batch jobs log erroneous output
- Logs are manually downloaded
- Job graph produced on demand
- Helps me make sure things are still working



Test Clutch for curl job durations



PR Analysis Duration (seconds)

Database

- Central store of test results
- Source of data for all reports
- Source of flakiness status for PR comments
- Can be exported in OpenMetrics format



Open Metrics

- Born in the Prometheus monitoring project
- Attempt to become IETF standard was abandoned
- Still used by much software as "Prometheus format"
- Simple text-based format for exporting metrics
- Simple example:
- # TYPE testclutch_tests_duration_seconds gauge
- # UNIT testclutch_tests_duration_seconds seconds

HELP testclutch_tests_duration_seconds How long the tests took to run (wall clock time).

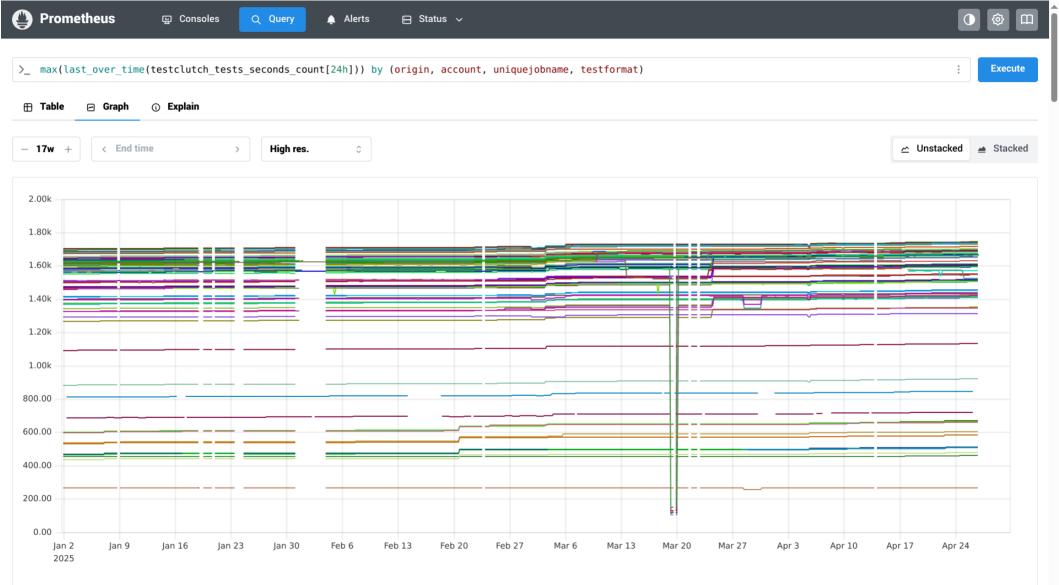
testclutch_tests_duration_seconds 2650.0 1742118441

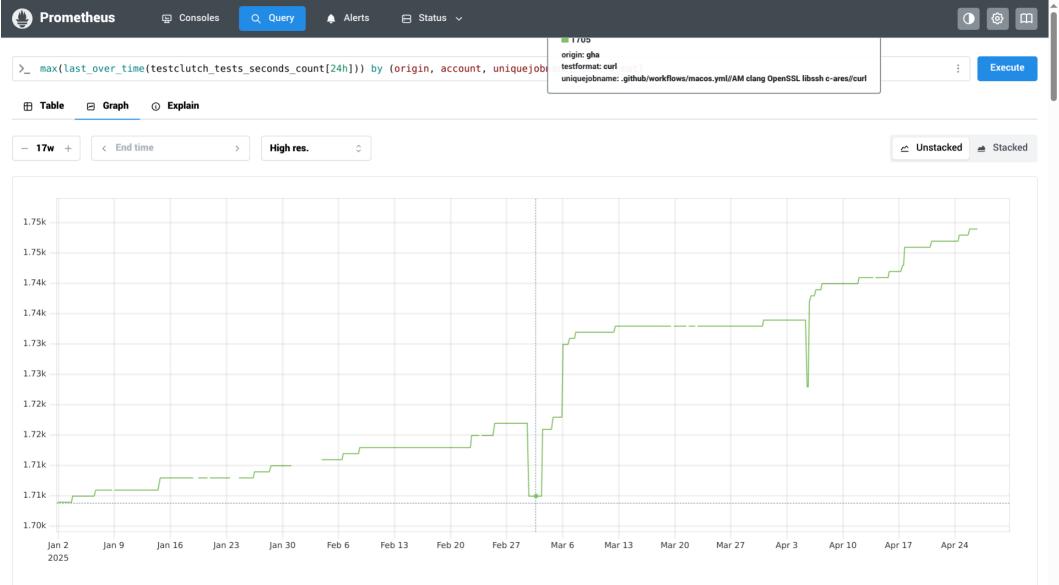


Open Metrics

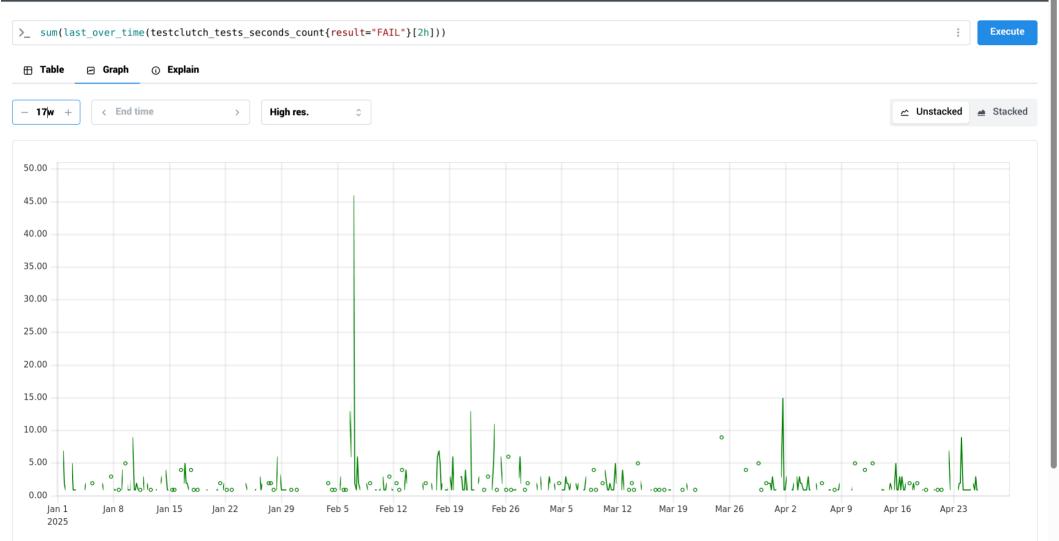
testclutch tests duration seconds{arch="sparc".buildcode="2222030376",buildsystem="automake",checkrepo="https:// github.com/curl/curl",cijob="Solaris 10 SPARC GCC 4.9.2 + OpenCSW (ares resolver)", ciname="Dagobert",commit="4911e7af119c1b7efd46a742d47bca44832c3041",compiler="GNU C",compilerversion="5.5 .0", compilerversioncode="505", configureargs=""--enable-ares' '--with-openssl' '--enable-debug' '--enable-curldebug' '-enable-symbol-hiding' '--with-gssapi=/opt/csw/lib' '--enable-ldap' '--enable-ldaps' 'CC=/opt/csw/bin/gcc' 'LDFLAGS=-L/opt/csw/lib", curldeps="libcurl/8.13.0-DEV OpenSSL/1.1.1w zlib/1.3.1 brotli/1.0.2 zstd/1.4.5 c-ares/1.14.0 libidn2/2.0.4 libpsl/0.21.5 nghttp2/1.30.0 librtmp/2.3 libgsasl/1.8.0 OpenLDAP/2.4.40", curlprotocols="dict file ftp ftps gopher gophers http https imap imaps ipfs ipns Idap Idaps mgtt pop3 pop3s rtmp rtsp smb smbs smtp smtps telnet tftp ws wss", executor="testcurl", executorver="2024-11-28", features="alt-svc AsynchDNS brotli Debug gsasl GSS-API HSTS HTTP2 HTTPS-proxy IDN IPv6 Kerberos Largefile libz NTLM PSL SPNEGO SSL threadsafe TLS-SRP TrackMemory UnixSockets zstd",host="unstable10s",hostarch="sparc",hostos="solaris2.10",hosttriplet="sparc-sun-solaris2.10", hostvendor="sun",origin="curlauto",os="solaris",perlver="5.10.1",randomseed="223460",runid="build-20250316094727-315931.log",runtestsopts="-a -p -r",systemhost="unstable10s",systemos="SunOS", systemosver="5.10", targetarch="sparc",targetos="solaris2.10",targettriplet="sparc-sunsolaris2.10", targetvendor="sun", testformat="curl", testingver="8.13.0-DEV", testmode="normal", testresult="success", uniquejobname="Solaris 10 SPARC GCC 4.9.2 + OpenCSW (ares resolver) 2222030376!curl",**url**="https://curl.se/dev/log.cgi?id=20250316094727-315931 ",withduphandle="no", withevent="no", withvalgrind="no", job="testclutch", instance="test"} 2650.0 1742118441

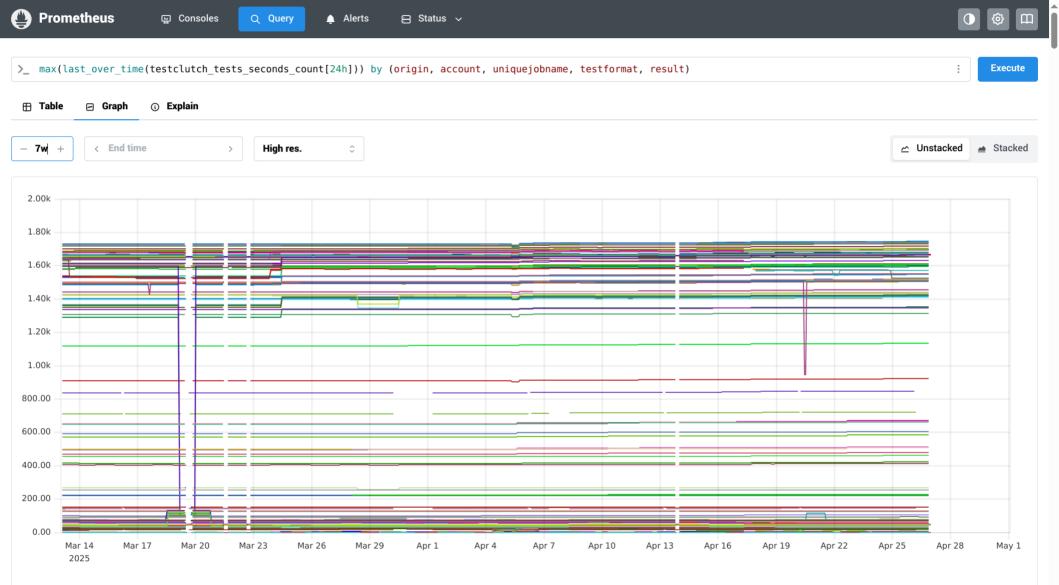






😑 Status 🗸

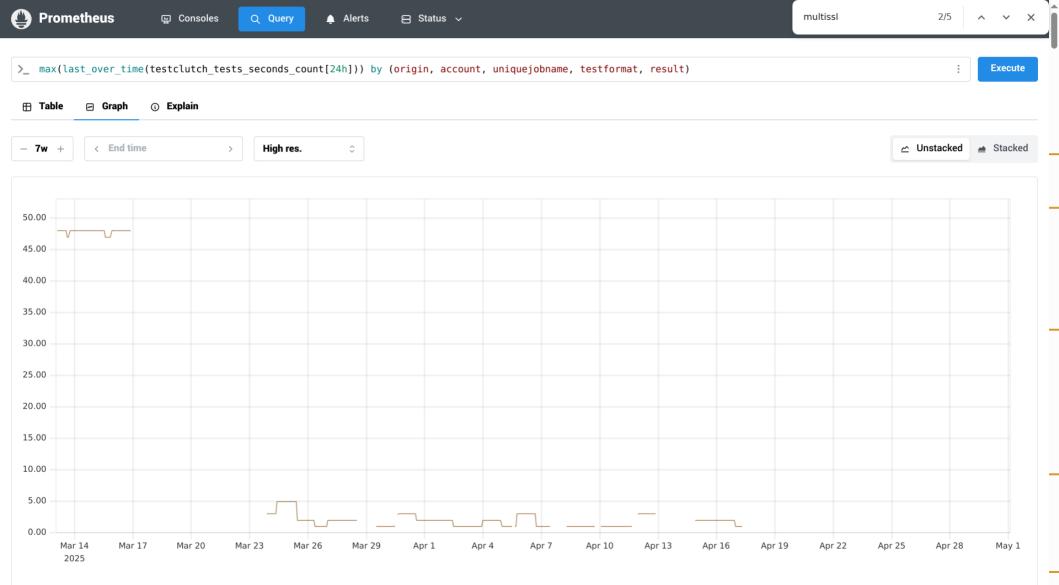




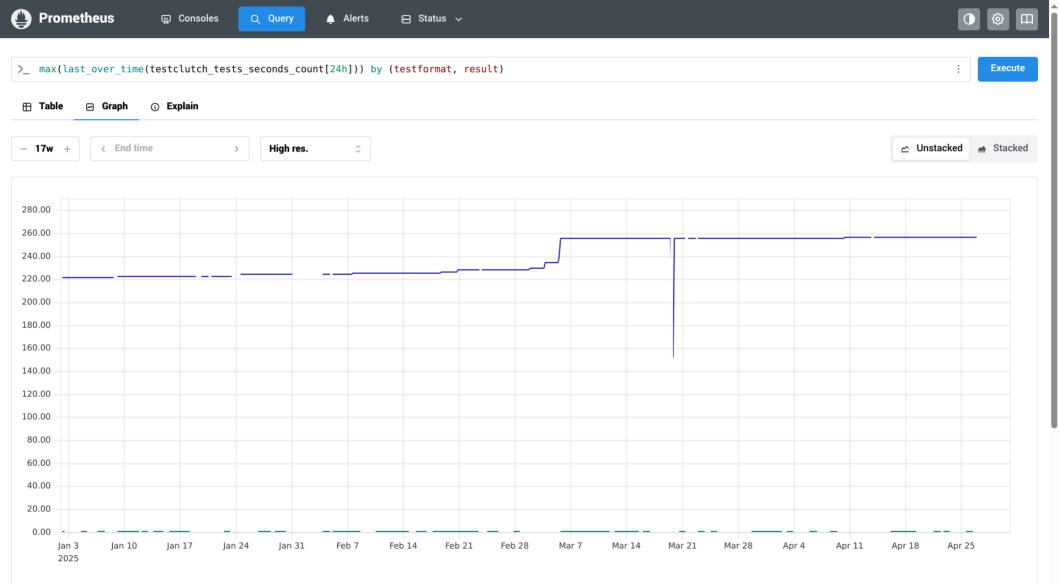
{origin="circle", result="FAIL", testformat="curl", uniquejobname="arm-openssl-c-ares!curl"}

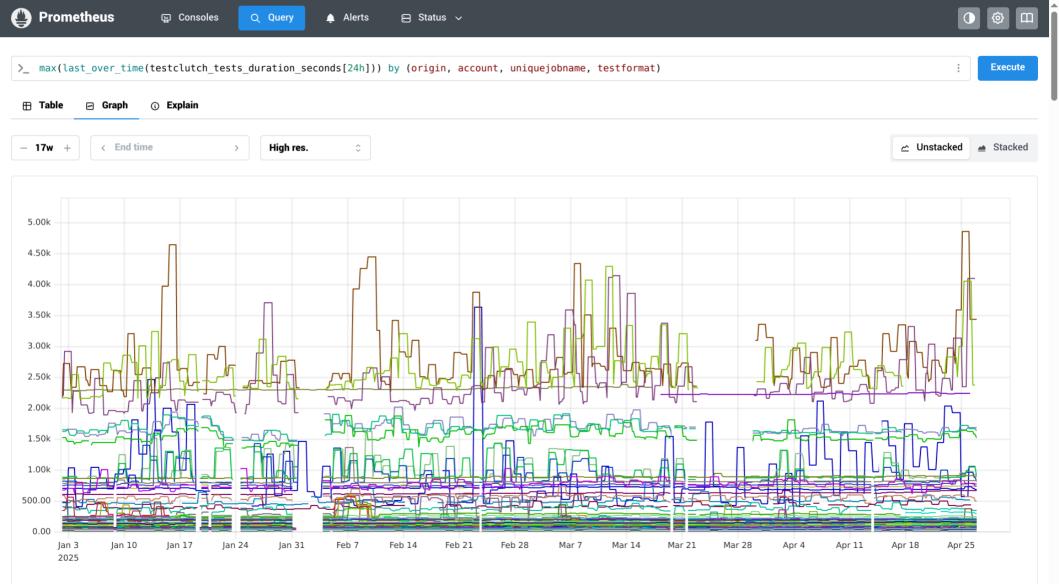
Q Query

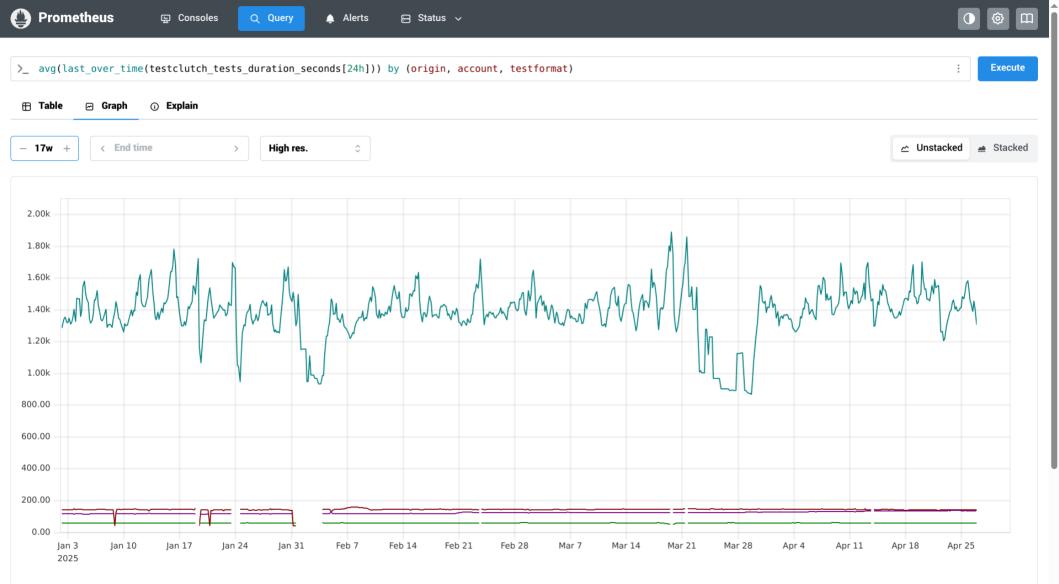
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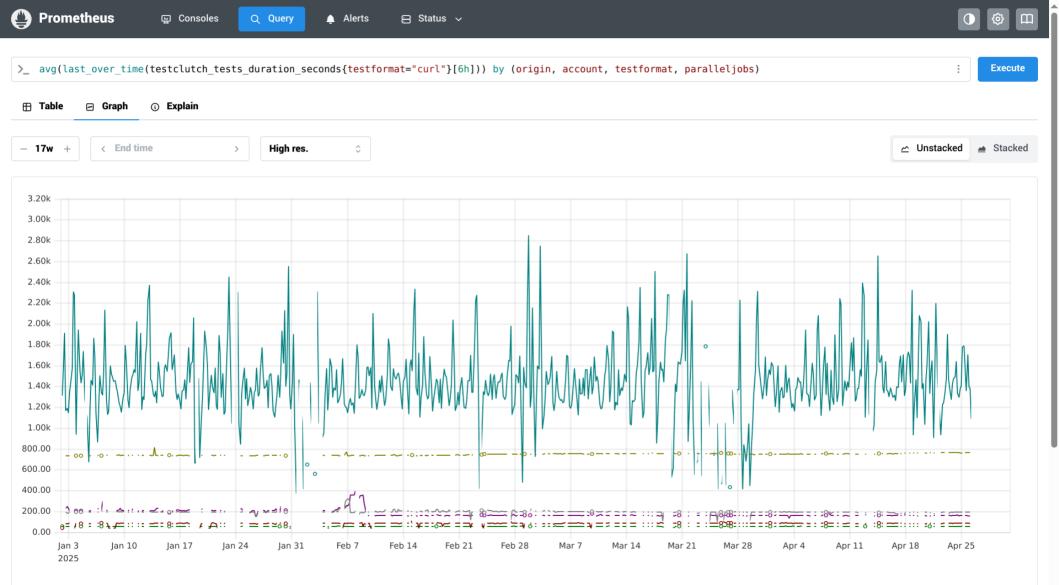


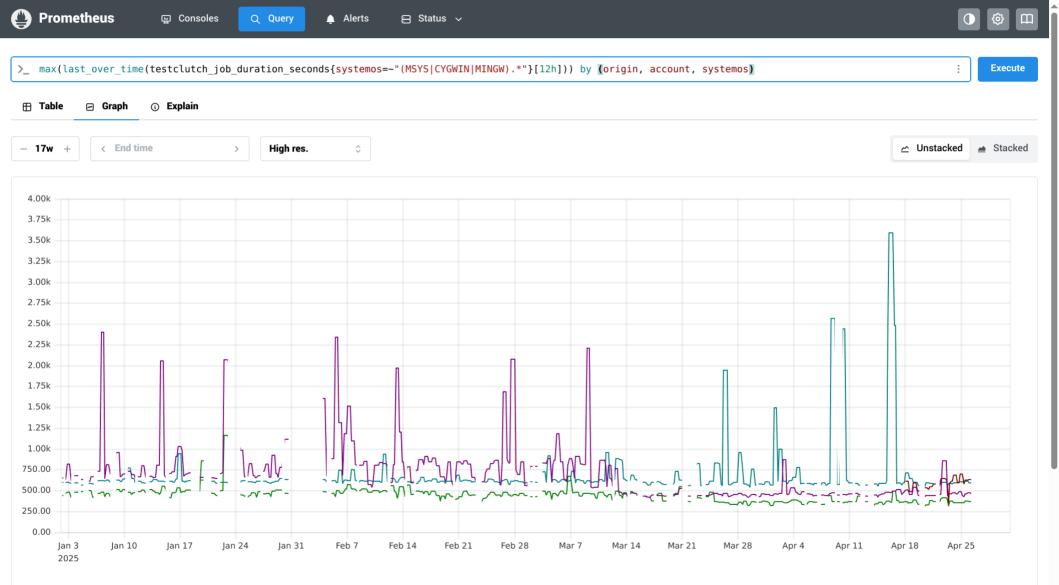
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PromQL Issues

- Best with continuously-pulled metrics
- Delay of >5m between samples causes discontinuities
- Expand window to avoid gaps, but can become misleading
- Average() or Max() over larger window can combine several commits & job runs
- Most queries here used 6h or 24h windows
- Missing labels can cause missing data if care isn't taken



Questions?





Gurl:///L

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