

NAME

v8 — Google's JavaScript engine

SYNOPSIS

shell [*options*] [--shell] [*file* ...]

d8 [*options*] [-e *string*] [--shell] [--module] [*file*...]

OPTIONS

— Capture all remaining arguments in JavaScript.

-e *string*

Execute *string* in V8.

--shell

Run an interactive JavaScript shell.

--help

Print flags and usage message to stdout, then exit.

--module

Execute *file* as a JavaScript module.

Note: the --module option is implicitly enabled for *.mjs files.

V8 FLAGS

Option names beginning with “no-” pertain to a boolean V8 flag enabled by default.

--abort-on-uncaught-exception

Abort program (dump core) when an uncaught exception is thrown.

--no-allocation-site-pretenuing

Don't pretenu with allocation sites.

--allow-natives-syntax

Allow natives syntax.

--allow-unsafe-function-constructor

Allow invoking the function constructor without security checks.

--always-compact

Perform compaction on every full GC.

--always-opt

Always try to optimise functions.

--always-osr

Always try to OSR functions.

--no-analyze-environment-liveness

Don't analyse liveness of environment slots and zap dead values.

--arm-arch**Type:** String**Default:** "armv8"

Generate instructions for the selected ARM architecture if available: armv6, armv7, armv7+sdiv or armv8.

--asm-wasm-lazy-compilation

Enable lazy compilation for asm-wasm modules.

--assert-types

Generate runtime type assertions to test the typer.

--assume-asmjs-origin

Force WASM decoder to assume input is internal asm-wasm format.

--no-async-stack-traces

Exclude async stack traces in `Error.stack`.

--block-concurrent-recompilation

Block queued jobs until released.

--budget-for-feedback-vector-allocation**Type:** Int**Default:** 1024

The budget in amount of bytecode executed by a function before we decide to allocate feedback vectors.

--builtins-in-stack-traces

Show built-in functions in stack traces.

--no-cache-prototype-transitions

Don't cache prototype transitions.

--check-icache

Check icache flushes in ARM and MIPS simulator.

--clear-exceptions-on-js-entry

Clear pending exceptions when entering JavaScript.

--clear-free-memory

Initialise free memory with 0.

--code-comments

Emit comments in code disassembly; for more readable source positions you should add `--no-concurrent-recompilation`.

--no-compact-code-space

Don't compact code space on full collections.

--no-compilation-cache

Disable compilation cache.

--compiler-dispatcher

Enable compiler dispatcher.

--no-concurrent-array-buffer-freeing

Don't free array buffer allocations on a background thread.

--concurrent-inlining

Run optimising compiler's inlining phase on a separate thread.

--no-concurrent-marking

Don't use concurrent marking.

--no-concurrent-recompilation

Force synchronous optimisation of hot functions.

--concurrent-recompilation-delay

Type: Int

Default: 0

Artificial compilation delay in ms.

--concurrent-recompilation-queue-length

Type: Int

Default: 8

The length of the concurrent compilation queue.

--no-concurrent-store-buffer

Don't use concurrent store buffer processing.

--no-concurrent-sweeping

Don't use concurrent sweeping.

--correctness-fuzzer-suppressions

Suppress certain unspecified behaviours to ease correctness fuzzing: abort program when the stack overflows or a string exceeds maximum length (as opposed to throwing `RangeError`), and use a fixed suppression string for error messages.

--cpu-profiler-sampling-interval

Type: Int

Default: 1000

CPU profiler sampling interval in microseconds.

--csa-trap-on-node**Type:** String**Default:** NULL

Trigger break point when a node with given id is created in given stub. The format is:Stub-Name,NodeId.

--debug-code

Generate extra code (assertions) for debugging.

--debug-sim

Enable debugging the simulator.

--deopt-every-n-times**Type:** Int**Default:** 0

Deoptimise every n times a deopt point is passed.

--detailed-error-stack-trace

Include arguments for each function call in the error stack frames array.

--detailed-line-info

Always generate detailed line information for CPU profiling.

--no-detect-ineffective-gcs-near-heap-limit

Don't trigger out-of-memory failure to avoid GC storm near heap limit.

--disable-abortjs

Disable AbortJS runtime function.

--disable-old-api-accessors

Disable old-style API accessors whose setters trigger through the prototype chain.

--disallow-code-generation-from-strings

Disallow eval and friends.

--dump-counters

Dump counters on exit.

--dump-counters-nvp

Dump counters as name-value pairs on exit.

--dump-wasm-module-path**Type:** String**Default:** NULL

Directory to dump WASM modules to.

--embedded-src**Type:** String**Default:** NULL

Path for the generated embedded data file. (mksnapshot only).

--embedded-variant**Type:** String**Default:** NULL

Label to disambiguate symbols in embedded data file. (mksnapshot only).

--enable-3dregs**Type:** maybe_bool**Default:** unset

Deprecated (use --arm-arch instead).

--enable-armv7**Type:** maybe_bool**Default:** unset

Deprecated (use --arm-arch instead).

--enable-armv8**Type:** maybe_bool**Default:** unset

Deprecated (use --arm-arch instead).

--no-enable-avx

Disable use of AVX instructions if available.

--no-enable-bmi1

Disable use of BMI1 instructions if available.

--no-enable-bmi2

Disable use of BMI2 instructions if available.

--no-enable-fma3

Disable use of FMA3 instructions if available.

--no-enable-lazy-source-positions

Don't skip generating source positions during initial compile, but regenerate when actually required.

--no-enable-lzcnt

Disable use of LZCNT instruction if available.

--enable-neon**Type:** maybe_bool**Default:** unset

Deprecated (use --arm-arch instead).

--no-enable-one-shot-optimization

Disable size optimisations for the code that will only be executed once.

--no-enable-popcnt

Disable use of POPCNT instruction if available.

--no-enable-regexp-unaligned-accesses

Disable unaligned accesses for the regexp engine.

--no-enable-sahf

Disable use of SAHF instruction if available (X64 only).

--enable-source-at-csa-bind

Include source information in the binary at CSA bind locations.

--no-enable-sse3

Disable use of SSE3 instructions if available.

--no-enable-sse4-1

Disable use of SSE4.1 instructions if available.

--no-enable-sse4-2

Disable use of SSE4.2 instructions if available.

--no-enable-ssse3

Disable use of SSSE3 instructions if available.

--enable-sdiv**Type:** maybe_bool**Default:** unset

Deprecated (use --arm-arch instead).

--enable-vfp3**Type:** maybe_bool**Default:** unset

Deprecated (use --arm-arch instead).

--ephemeron-fixpoint-iterations**Type:** Int**Default:** 10

Number of fixpoint iterations it takes to switch to linear ephemeron algorithm.

--es-staging

Internal use only.

Enable test-worthy Harmony features.

--no-experimental-inline-promise-constructor

Don't inline the `Promise` constructor in TurboFan.

--experimental-new-space-growth-heuristic

Grow the new space based on the percentage of survivors instead of their absolute value.

--experimental-stack-trace-frames

Enable experimental frames (API/Builtins) and stack trace layout.

--experimental-wasm-anyref

Enable prototype anyref opcodes for WASM.

--experimental-wasm-bigint

Enable prototype JS `BigInt` support for WASM.

--no-experimental-wasm-bulk-memory

Disable prototype bulk memory opcodes for WASM.

--experimental-wasm-compilation-hints

Enable prototype compilation hints section for WASM.

--experimental-wasm-eh

Enable prototype exception handling opcodes for WASM.

--experimental-wasm-mv

Enable prototype multi-value support for WASM.

--experimental-wasm-return-call

Enable prototype return call opcodes for WASM.

--no-experimental-wasm-sat-f2i-conversions

Disable prototype saturating float conversion opcodes for WASM.

--no-experimental-wasm-se

Disable prototype sign extension opcodes for WASM.

--experimental-wasm-simd

Enable prototype SIMD opcodes for WASM.

--experimental-wasm-threads

Enable prototype thread opcodes for WASM.

- experimental-wasm-type-reflection**
Enable prototype WASM type reflection in JS for WASM.
- expose-async-hooks**
Expose `async_hooks` object.
- expose-cputracemark-as**
Type: String
Default: NULL

Expose `cputracemark` extension under the specified name.
- expose-externalize-string**
Expose `externalize` string extension.
- expose-free-buffer**
Expose `freeBuffer` extension.
- expose-gc**
Expose `gc` extension.
- expose-gc-as**
Type: String
Default: NULL

Expose `gc` extension under the specified name.
- expose-inspector-scripts**
Expose `injected-script-source.js` for debugging.
- expose-trigger-failure**
Expose `trigger-failure` extension.
- no-expose-wasm**
Don't expose WASM interface to JavaScript.
- no-fast-math**
Don't enable faster, potentially less accurate, math functions.
- fast-promotion-new-space**
Fast promote new space on high survival rates.
- feedback-normalization**
Feed back normalisation to constructors.
- no-flush-bytecode**
Don't flush bytecode that hasn't executed recently.

--force-long-branches

Force all emitted branches to be in long mode (MIPS/PPC only).

--force-marking-deque-overflows

Force overflows of marking deque by reducing its size to 64 words.

--force-slow-path

Always take the slow path for builtins.

--frame-count

Type: Int

Default: 1

Number of stack frames inspected by the profiler.

--function-context-specialization

Enable function context specialization in TurboFan.

--future

Implies all staged features that we want to ship in the not-too-far future.

--fuzzer-gc-analysis

Print number of allocations and enable analysis mode for GC fuzz-testing, e.g. `--stress-marking`, `--stress-scavenge`.

--fuzzer-random-seed

Type: Int

Default: 0

Default seed for initialising fuzzer random generator (0, the default, means to use v8's random number generator seed).

--gc-experiment-background-schedule

Use new background GC schedule heuristics.

--gc-experiment-less-compaction

Use less compaction in non-memory reducing mode.

--gc-fake-mmap

Type: String

Default: `" /tmp/ __v8_gc__ "`

Specify the name of the file for fake gc mmap used in `ll_prof`.

--gc-freelist-strategy

Type: Int

Default: 5

Freelist strategy to use. Supported values and their meanings are:

0	FreeListLegacy
1	FreeListFastAlloc
2	FreeListMany
3	FreeListManyCached
4	FreeListManyCachedFastPath
5	FreeListManyCachedOrigin

--gc-global

Always perform global GCs.

--gc-interval

Type: Int

Default: -1

Garbage collect after *N* allocations.

--gc-stats

Type: Int

Default: 0

Used by tracing internally to enable gc statistics.

--gdbjit

Enable GDBJIT interface.

--gdbjit-dump

Dump ELF objects with debug info to disk.

--gdbjit-dump-filter

Dump only objects containing this substring.

--gdbjit-full

Enable GDBJIT interface for all code objects.

--no-global-gc-scheduling

Disable GC scheduling based on global memory.

--no-hard-abort

Don't abort by crashing.

--harmony

Enable all completed Harmony features.

--no-harmony-dynamic-import

Disable dynamic import.

--no-harmony-import-meta

Disable `import.meta` property.

- harmony-intl-add-calendar-numbering-system**
Add `calendar` and `numberingSystem` to `DateTimeFormat`.
- no-harmony-intl-bigint**
Disable `BigInt.prototype.toLocaleString`.
- no-harmony-intl-date-format-range**
Disable `DateTimeFormat.formatRange`.
- harmony-intl-dateformat-day-period**
Add `dayPeriod` option to `DateTimeFormat`.
- harmony-intl-dateformat-fractional-second-digits**
Add `fractionalSecondDigits` option to `DateTimeFormat`.
- harmony-intl-dateformat-quarter**
In progress.

Add `quarter` option to `DateTimeFormat`.
- no-harmony-intl-datetime-style**
Disable `dateStyle` and `timeStyle` for `DateTimeFormat`.
- no-harmony-intl-numberformat-unified**
Disable unified `Intl.NumberFormat` features.
- harmony-intl-segmenter**
Enable `Intl.Segmenter`.
- no-harmony-namespace-exports**
Disable namespace exports (`export * as foo from "bar"`).
- harmony-nullish**
In progress.

Enable nullish operator.
- harmony-optional-chaining**
In progress.

Enable optional chaining syntax.
- harmony-private-methods**
In progress.

Enable private methods in class literals.

--no-harmony-promise-all-settled

Disable `Promise.allSettled`.

--harmony-regexp-sequence

In progress.

Enable `RegExp` Unicode sequence properties.

--no-harmony-sharedarraybuffer

Disable `SharedArrayBuffer`.

--no-harmony-shipping

Disable all shipped Harmony features.

--harmony-weak-refs

In progress.

Enable weak references.

--hash-seed

Type: `Uint64`

Default: 0

Fixed seed to use to hash property keys (0 means random). With snapshots this option cannot override the baked-in seed.

--heap-growing-percent

Type: `Int`

Default: 0

Specifies heap growing factor as $(1 + \text{heap_growing_percent} / 100)$.

--heap-profiler-trace-objects

Dump heap object allocations/movements/size_updates.

--no-heap-profiler-use-embedder-graph

Don't use the new `EmbedderGraph` API to get embedder nodes.

--heap-snapshot-string-limit

Type: `Int`

Default: 1024

Truncate strings to this length in the heap snapshot.

--histogram-interval

Type: `Int`

Default: 600000

Time interval in ms for aggregating memory histograms.

--huge-max-old-generation-size

Increase maximum size of the old space to 4 GB for x64 systems with the physical memory bigger than 16 GB.

--no-icu-timezone-data

Don't get information about timezones from ICU.

--no-idle-time-scavenge

Don't perform scavenges in idle time.

--no-ignition-elide-noneffectful-bytecodes

Don't elide bytecodes which won't have any external effect.

--no-ignition-filter-expression-positions

Don't filter expression positions before the bytecode pipeline.

--no-ignition-reo

Don't use ignition register equivalence optimiser.

--no-ignition-share-named-property-feedback

Don't share feedback slots when loading the same named property from the same object.

--ignore-asm-unimplemented-break

Don't break for ASM_UNIMPLEMENTED_BREAK macros.

--no-incremental-marking

Don't use incremental marking.

--no-incremental-marking-wrappers

Don't use incremental marking for marking wrappers.

--initial-heap-size

Type: size_t

Default: 0

Initial size of the heap (in MBytes).

--initial-old-space-size

Type: size_t

Default: 0

Initial old space size (in MBytes).

--no-inline-accessors

Don't inline JavaScript accessors.

--no-inline-new

Don't use fast inline allocation.

--interpreted-frames-native-stack

Show interpreted frames on the native stack (useful for external profilers).

--interrupt-budget

Type: Int

Default: 147456

Interrupt budget which should be used for the profiler counter.

--jitless

Disable runtime allocation of executable memory.

--no-lazy

Don't use lazy compilation.

--no-lazy-feedback-allocation

Don't allocate feedback vectors lazily.

--liftoff

Enable Liftoff, the baseline compiler for WebAssembly.

--lite-mode

Enable trade-off of performance for memory savings.

--ll-prof

Enable low-level Linux profiler.

--log Minimal logging (no API, code, GC, suspect, or handles samples).**--log-all**

Log all events to the log file.

--log-api

Log API events to the log file.

--log-code

Log code events to the log file without profiling.

--no-log-colour

Don't use coloured output when logging.

--log-function-events

Log function events (parse, compile, execute) separately.

--log-handles

Log global handle events.

--log-instruction-file**Type:** String**Default:** "arm64_inst.csv"

AArch64 instruction statistics log file.

--log-instruction-period**Type:** Int**Default:** 4194304

AArch64 instruction statistics logging period.

--log-instruction-stats

Log AArch64 instruction statistics.

--log-internal-timer-events

Time internal events.

--log-source-code

Log source code.

--log-suspect

Log suspect operations.

--logfile**Type:** String**Default:** "v8.log"

Specify the name of the log file.

--no-logfile-per-isolate

Use a single log-file for each isolate.

--manual-evacuation-candidates-selectionTest mode only flag. It allows a unit test to select evacuation candidates pages (requires `--stress-compaction`).**--map-counters**

Map counters to a file.

--max-heap-size**Type:** size_t**Default:** 0Maximum size of the heap (in MBytes). Both `--max-semi-space-size` and `--max-old-space-size` take precedence. All three flags cannot be specified at the same time.**--max-inlined-bytecode-size****Type:** Int**Default:** 500

Maximum size of bytecode for a single inlining.

--max-inlined-bytecode-size-absolute

Type: Int
Default: 5000

Maximum cumulative size of bytecode considered for inlining.

--max-inlined-bytecode-size-cumulative

Type: Int
Default: 1000

Maximum cumulative size of bytecode considered for inlining.

--max-inlined-bytecode-size-small

Type: Int
Default: 30

Maximum size of bytecode considered for small function inlining.

--max-lazy

Ignore eager compilation hints.

--max-old-space-size

Type: size_t
Default: 0

Maximum size of the old space (in MBytes).

--max-optimized-bytecode-size

Type: Int
Default: 61440

Maximum bytecode size to be considered for optimisation; too high values may cause the compiler to hit (release) assertions.

--max-polymorphic-map-count

Type: Int
Default: 4

Maximum number of maps to track in POLYMORPHIC state.

--max-semi-space-size

Type: size_t
Default: 0

Maximum size of a semi-space (in MBytes), the new space consists of two semi-spaces.

--max-stack-trace-source-length

Type: Int
Default: 300

Maximum length of function source code printed in a stack trace.

--mcpu

Type: String
Default: "auto"

Enable optimisation for a specific CPU.

--no-memory-reducer

Don't use memory reducer.

--no-memory-reducer-for-small-heaps

Don't use memory reducer for small heaps.

--min-inlining-frequency

Type: Float
Default: 0.15

Minimum frequency for inlining.

--min-semi-space-size

Type: size_t
Default: 0

Minimum size of a semi-space (in MBytes), the new space consists of two semi-spaces.

--minor-mc

Perform young generation mark compact GCs.

--no-minor-mc-parallel-marking

Don't use parallel marking for the young generation.

--mock-arraybuffer-allocator

Use a mock `ArrayBuffer` allocator for testing.

--mock-arraybuffer-allocator-limit

Type: size_t
Default: 0

Memory limit for mock `ArrayBuffer` allocator used to simulate OOM for testing.

--no-modify-field-representation-inplace

Disable in-place field representation updates.

--no-move-object-start

Disable moving of object starts.

--native-code-counters

Generate extra code for manipulating stats counters.

--never-compact

Testing only.

Never perform compaction on full GC.

--no-opt

Don't use adaptive optimisations.

--optimize-for-size

Enable optimisations which favour memory size over execution speed.

--no-page-promotion

Don't promote pages based on utilisation.

--page-promotion-threshold

Type: Int

Default: 70

Minimum percentage of live bytes on a page to enable fast evacuation.

--no-parallel-compaction

Don't use parallel compaction.

--parallel-compile-tasks

Enable parallel compile tasks.

--no-parallel-marking

Don't use parallel marking in atomic pause.

--no-parallel-pointer-update

Don't use parallel pointer update during compaction.

--no-parallel-scavenge

Disable parallel scavenging.

--parse-only

Only parse the sources.

--no-partial-constant-pool

Disable use of partial constant pools (X64 only).

--perf-basic-prof

Enable perf Linux profiler (basic support).

--perf-basic-prof-only-functions

Only report function code ranges to perf (i.e. no stubs).

- perf-prof**
Enable perf Linux profiler (experimental annotate support).
- perf-prof-annotate-wasm**
Load WASM source-map and provide annotate support when used with `--perf-prof` (experimental).
- perf-prof-unwinding-info**
Enable unwinding info for perf Linux profiler (experimental).
- no-polymorphic-inlining**
Disable polymorphic inlining.
- predictable**
Enable predictable mode.
- predictable-gc-schedule**
Predictable garbage collection schedule. Fixes heap growing, idle, and memory reducing behavior.
- prepare-always-opt**
Prepare for turning on always opt.
- print-all-exceptions**
Print exception object and stack trace on each thrown exception.
- print-bytecode**
Print bytecode generated by ignition interpreter.
- print-bytecode-filter**
Type: String
Default: "*"

Filter for selecting which functions to print bytecode.
- print-deopt-stress**
Print number of possible deopt points.
- print-opt-source**
Print source code of optimised and inlined functions.
- print-wasm-code**
Print WebAssembly code.
- print-wasm-stub-code**
Print WebAssembly stub code.

--prof

Log statistical profiling information (implies `--log-code`).

--no-prof-browser-mode

Turn off browser-compatible mode when profiling with `--prof`.

--prof-cpp

Like `--prof`, but ignore generated code.

--prof-sampling-interval

Type: Int

Default: 1000

Interval for `--prof` samples (in microseconds).

--profile-deserialization

Print the time it takes to deserialise the snapshot.

--random-gc-interval

Type: Int

Default: 0

Collect garbage after `random(0, X)` allocations. It overrides `--gc-interval`.

--random-seed

Type: Int

Default: 0

Default seed for initialising random generator (0, the default, means to use system random).

--no-randomize-hashes

Don't randomise hashes to avoid predictable hash collisions (with snapshots this option cannot override the baked-in seed).

--redirect-code-traces

Output deopt information and disassembly into file `"code-pid-isolate-id.asm."`

--redirect-code-traces-to

Type: String

Default: NULL

Output deopt information and disassembly into the given file.

--regexp-interpret-all

Interpret all regexp code.

--regexp-mode-modifiers

Enable inline flags in regexp.

--no-regexp-optimization

Don't generate optimised regexp code.

--regexp-tier-up

Enable regexp interpreter and tier up to the compiler.

--no-rehash-snapshot

Don't rehash strings from the snapshot to override the baked-in seed.

--reserve-inline-budget-scale-factor

Type: Float

Default: 1 . 2

Maximum cumulative size of bytecode considered for inlining.

--retain-maps-for-n-gc

Type: Int

Default: 2

Keeps maps alive for N old space garbage collections.

--runtime-call-stats

Report runtime call counts and times.

--sampling-heap-profiler-suppress-randomness

Use constant sample intervals to eliminate test flakiness.

--no-script-streaming

Disable parsing on background.

--semi-space-growth-factor

Type: Int

Default: 2

Factor by which to grow the new space.

--serialization-chunk-size

Type: UInt

Default: 4096

Custom size for serialization chunks.

--serialization-statistics

Collect statistics on serialized objects.

--sim-stack-alignment

Type: Int

Default: 8

Stack alignment in bytes in simulator (4 or 8, 8 is default).

--sim-stack-size

Type: Int
Default: 2048

Stack size of the ARM64, MIPS64 and PPC64 simulator in kBytes (default is 2 MB).

--single-threaded

Disable the use of background tasks.

--stack-size

Type: Int
Default: 984

Default size of stack region v8 is allowed to use (in kBytes).

--stack-trace-limit

Type: Int
Default: 10

Number of stack frames to capture.

--stack-trace-on-illegal

Print stack trace when an illegal exception is thrown.

--startup-blob

Type: String
Default: NULL

Write V8 startup blob file. (mksnapshot only).

--startup-src

Type: String
Default: NULL

Write V8 startup as C++ src. (mksnapshot only).

--stop-sim-at

Type: Int
Default: 0

Simulator stop after X number of instructions.

--stress-compaction

Stress the GC compactor to flush out bugs (implies `--force-marking-deque-over-flows`).

--stress-compaction-random

Stress GC compaction by selecting random percent of pages as evacuation candidates. It overrides `--stress-compaction`.

--stress-flush-bytecode

Stress bytecode flushing.

--stress-gc-during-compilation

Simulate GC/compiler thread race related to <https://crbug.com/v8/8520>.

--stress-incremental-marking

Force incremental marking for small heaps and run it more often.

--stress-inline

Set high thresholds for inlining to inline as much as possible.

--stress-lazy-source-positions

Collect lazy source positions immediately after lazy compilation.

--stress-marking

Type: Int

Default: 0

Force marking at random points between 0 and X (inclusive) percent of the regular marking start limit.

--stress-runs

Type: Int

Default: 0

Number of stress runs.

--stress-sampling-allocation-profiler

Type: Int

Default: 0

Enable sampling allocation profiler with X as a sample interval.

--stress-scavenge

Type: Int

Default: 0

Force scavenge at random points between 0 and X (inclusive) percent of the new space capacity.

--stress-validate-asm

Try to validate everything as asm.js.

--stress-wasm-code-gc

Stress-test garbage collection of WASM code.

--suppress-asm-messages

Don't emit asm.js related messages (for golden file testing).

--target-arch**Type:** String**Default:** NULL

The mksnapshot target architecture. (mksnapshot only).

--target-os**Type:** String**Default:** NULL

The mksnapshot target OS. (mksnapshot only).

--test-small-max-function-context-stub-size

Enable testing the function context size overflow path by making the maximum size smaller.

--testing-float-flag**Type:** Float**Default:** 2.5

Float-flag.

--testing-int-flag**Type:** Int**Default:** 13

Testing_int_flag.

--testing-maybe-bool-flag**Type:** maybe_bool**Default:** unset

Testing_maybe_bool_flag.

--testing-prng-seed**Type:** Int**Default:** 42

Seed used for threading test randomness.

--testing-string-flag**Type:** String**Default:** "Hello, world!"

String-flag.

--no-thin-strings

Disable ThinString support.

--trace

Trace function calls.

- trace-all-uses**
Trace all use positions.
- trace-allocation-stack-interval**
Type: Int
Default: -1

Print stack trace after N free-list allocations.
- trace-allocations-origins**
Show statistics about the origins of allocations. Combine with `--no-inline-new` to track allocations from generated code.
- trace-asm-parser**
Verbose logging of asm.js parse failures.
- trace-asm-scanner**
Log tokens encountered by asm.js scanner.
- trace-asm-time**
Log asm.js timing info to the console.
- trace-block-coverage**
Trace collected block coverage information.
- trace-compiler-dispatcher**
Trace compiler dispatcher activity.
- trace-concurrent-marking**
Trace concurrent marking.
- trace-concurrent-recompilation**
Track concurrent recompilation.
- trace-deopt**
Trace optimise function deoptimisation.
- trace-detached-contexts**
Trace native contexts that are expected to be garbage collected.
- trace-duplicate-threshold-kb**
Type: Int
Default: 0

Print duplicate objects in the heap if their size is more than given threshold.
- trace-environment-liveness**
Trace liveness of local variable slots.

- trace-evacuation**
Report evacuation statistics.
- trace-evacuation-candidates**
Show statistics about the pages evacuation by the compaction.
- trace-file-names**
Include file names in trace-opt/trace-deopt output.
- trace-for-in-enumerate**
Trace for-in enumerate slow-paths.
- trace-fragmentation**
Report fragmentation for old space.
- trace-fragmentation-verbose**
Report fragmentation for old space (detailed).
- trace-gc**
Print one trace line following each garbage collection.
- trace-gc-freelists**
Print details of each freelist before and after each major garbage collection.
- trace-gc-freelists-verbose**
Print details of freelists of each page before and after each major garbage collection.
- trace-gc-ignore-scavenger**
Do not print trace line after scavenger collection.
- trace-gc-nvp**
Print one detailed trace line in name=value format after each garbage collection.
- trace-gc-object-stats**
Trace object counts and memory usage.
- trace-gc-verbose**
Print more details following each garbage collection.
- trace-generalization**
Trace map generalisation.
- trace-heap-broker**
Trace the heap broker (reports on missing data only).
- trace-heap-broker-verbose**
Trace the heap broker verbosely (all reports).

- trace-ic**
Trace inline cache state transitions for tools/ic-processor.
- trace-idle-notification**
Print one trace line following each idle notification.
- trace-idle-notification-verbose**
Print the heap state used by the idle notification.
- trace-ignition-codegen**
Trace the codegen of ignition interpreter bytecode handlers.
- trace-ignition-dispatches**
Traces the dispatches to bytecode handlers by the ignition interpreter.
- trace-ignition-dispatches-output-file**
Type: String
Default: NULL

The file to which the bytecode handler dispatch table is written (by default, the table is not written to a file).
- trace-incremental-marking**
Trace progress of the incremental marking.
- trace-maps**
Trace map creation.
- no-trace-maps-details**
Don't log map details.
- trace-migration**
Trace object migration.
- trace-minor-mc-parallel-marking**
Trace parallel marking for the young generation.
- trace-mutator-utilization**
Print mutator utilisation, allocation speed, GC speed.
- trace-opt**
Trace lazy optimisation.
- trace-opt-stats**
Trace lazy optimisation statistics.
- trace-opt-verbose**
Extra verbose compilation tracing.

- trace-osr**
Trace on-stack replacement.
- trace-parallel-scavenge**
Trace parallel scavenge.
- trace-pretenuing**
Trace pretenuing decisions of HAllocate instructions.
- trace-pretenuing-statistics**
Trace allocation site pretenuing statistics.
- trace-protector-invalidation**
Trace protector cell invalidations.
- trace-prototype-users**
Trace updates to prototype user tracking.
- trace-rail**
Trace RAIL mode.
- trace-representation**
Trace representation types.
- trace-serializer**
Print code serializer trace.
- trace-side-effect-free-debug-evaluate**
Print debug messages for side-effect-free debug-evaluate for testing.
- trace-sim**
Trace simulator execution.
- trace-sim-messages**
Trace simulator debug messages. Implied by `--trace-sim`.
- trace-store-elimination**
Trace store elimination.
- trace-stress-marking**
Trace stress marking progress.
- trace-stress-scavenge**
Trace stress scavenge progress.
- trace-track-allocation-sites**
Trace the tracking of allocation sites.

- trace-turbo**
Trace generated TurboFan IR.
- trace-turbo-alloc**
Trace TurboFan's register allocator.
- trace-turbo-ceq**
Trace TurboFan's control equivalence.
- trace-turbo-cfg-file**
Type: String
Default: NULL

Trace turbo cfg graph (for C1 visualiser) to a given file name.
- trace-turbo-filter**
Type: String
Default: "*"

Filter for tracing turbofan compilation.
- trace-turbo-graph**
Trace generated TurboFan graphs.
- trace-turbo-inlining**
Trace TurboFan inlining.
- trace-turbo-jt**
Trace TurboFan's jump threading.
- trace-turbo-load-elimination**
Trace TurboFan load elimination.
- trace-turbo-loop**
Trace TurboFan's loop optimisations.
- trace-turbo-path**
Type: String
Default: NULL

Directory to dump generated TurboFan IR to.
- trace-turbo-reduction**
Trace TurboFan's various reducers.
- trace-turbo-scheduled**
Trace TurboFan IR with schedule.

--trace-turbo-scheduler

Trace TurboFan's scheduler.

--trace-turbo-trimming

Trace TurboFan's graph trimmer.

--no-trace-turbo-types

Don't trace TurboFan's types.

--trace-unmapper

Trace the unmapping.

--trace-verify-csa

Trace code stubs verification.

--trace-wasm-ast-end

Type: Int

Default: 0

End function for WASM AST trace (exclusive).

--trace-wasm-ast-start

Type: Int

Default: 0

Start function for WASM AST trace (inclusive).

--trace-wasm-code-gc

Trace garbage collection of WASM code.

--trace-wasm-memory

Print all memory updates performed in WASM code.

--trace-wasm-serialization

Trace serialization/deserialization.

--trace-zone-stats

Trace zone memory usage.

--no-track-computed-fields

Don't track computed boilerplate fields.

--no-track-detached-contexts

Don't track native contexts that are expected to be garbage collected.

--no-track-double-fields

Don't track fields with double values.

- no-track-field-types**
Don't track field types.
- no-track-fields**
Don't track fields with only SMI values.
- track-gc-object-stats**
Track object counts and memory usage.
- no-track-heap-object-fields**
Don't track fields with heap values.
- track-retaining-path**
Enable support for tracking retaining path.
- no-turbo-allocation-folding**
Disable TurboFan allocation folding.
- no-turbo-cf-optimization**
Don't optimise control flow in TurboFan.
- turbo-control-flow-aware-allocation**
Consider control flow while allocating registers.
- no-turbo-escape**
Disable escape analysis.
- turbo-filter**
Type: String
Default: "*"

Optimisation filter for TurboFan compiler.
- no-turbo-inline-array-builtins**
Don't inline array builtins in TurboFan code.
- no-turbo-inlining**
Disable inlining in TurboFan.
- turbo-instruction-scheduling**
Enable instruction scheduling in TurboFan.
- no-turbo-jt**
Disable jump threading in TurboFan.
- no-turbo-load-elimination**
Disable load elimination in TurboFan.

- no-turbo-loop-peeling**
Disable TurboFan loop peeling.
- no-turbo-loop-rotation**
Disable TurboFan loop rotation.
- no-turbo-loop-variable**
Disable TurboFan loop variable optimisation.
- no-turbo-move-optimization**
Don't optimise gap moves in TurboFan.
- turbo-profiling**
Enable profiling in TurboFan.
- no-turbo-rewrite-far-jumps**
Don't rewrite far to near jumps (ia32,x64).
- turbo-sp-frame-access**
Use stack pointer-relative access to frame wherever possible.
- no-turbo-splitting**
Don't split nodes during scheduling in TurboFan.
- turbo-stats**
Print TurboFan statistics.
- turbo-stats-nvp**
Print TurboFan statistics in machine-readable format.
- turbo-stats-wasm**
Print TurboFan statistics of WASM compilations.
- no-turbo-store-elimination**
Disable store-store elimination in TurboFan.
- turbo-stress-instruction-scheduling**
Randomly schedule instructions to stress dependency tracking.
- turbo-verify**
Verify TurboFan graphs at each phase.
- turbo-verify-allocation**
Verify register allocation in TurboFan.
- turbo-verify-machine-graph**
Type: String
Default: NULL

Verify TurboFan machine graph before instruction selection.

--no-unbox-double-arrays

Don't automatically unbox arrays of doubles.

--untrusted-code-mitigations

Enable mitigations for executing untrusted code.

--use-external-strings

Use external strings for source code.

--no-use-ic

Don't use inline caching.

--no-use-idle-notification

Don't use idle notification to reduce memory footprint.

--no-use-marking-progress-bar

Don't use a progress bar to scan large objects in increments when incremental marking is active.

--no-use-osr

Don't use on-stack replacement.

--use-strict

Enforce strict mode.

--no-use-verbose-printer

Disable verbose printing.

--v8-os-page-size

Type: Int

Default: 0

Override OS page size (in KBytes).

--no-validate-asm

Don't validate asm.js modules before compiling.

--no-wasm-async-compilation

Disable actual asynchronous compilation for `WebAssembly.compile`.

--no-wasm-code-gc

Disable garbage collection of WASM code.

--wasm-disable-structured-cloning

Disable WASM structured cloning.

--wasm-fuzzer-gen-test

Generate a test case when running a WASM fuzzer.

--wasm-grow-shared-memory

Allow growing shared WebAssembly memory objects.

--wasm-interpret-all

Execute all WASM code in the WASM interpreter.

--wasm-lazy-compilation

Enable lazy compilation for all WASM modules.

--wasm-lazy-validation

Enable lazy validation for lazily-compiled WASM functions.

--no-wasm-math-intrinsics

Don't intrinsify some Math imports into WASM.

--wasm-max-code-space

Type: Uint

Default: 1024

Maximum committed code space for WASM (in MB).

--wasm-max-mem-pages

Type: Uint

Default: 32767

Maximum number of 64KiB memory pages of a WASM instance.

--wasm-max-table-size

Type: Uint

Default: 10000000

Maximum table size of a WASM instance.

--wasm-no-bounds-checks

Disable bounds checks (performance testing only).

--wasm-no-stack-checks

Disable stack checks (performance testing only).

--wasm-num-compilation-tasks

Type: Int

Default: 10

Number of parallel compilation tasks for WASM.

- wasm-opt**
Enable WASM optimisation.
- no-wasm-shared-code**
Don't share code underlying a WASM module when it is transferred.
- no-wasm-shared-engine**
Don't share one WASM engine between all isolates within a process.
- wasm-staging**
Enable staged WASM features.
- wasm-test-streaming**
Use streaming compilation instead of async compilation for tests.
- wasm-tier-mask-for-testing**
Type: Int
Default: 0

 Bitmask of functions to compile with TurboFan instead of Liftoff.
- no-wasm-tier-up**
Disable WASM baseline compilation and tier up to the optimising compiler.
- no-wasm-trap-handler**
Don't use signal handlers to catch out of bounds memory access in WASM (currently Linux x86_64 only).
- wasm-write-protect-code-memory**
Write protect code memory on the WASM native heap.
- no-win64-unwinding-info**
Disable unwinding info for Windows/x64.
- no-write-protect-code-memory**
Don't write protect code memory.
- no-young-generation-large-objects**
Don't allocate large objects by default in the young generation large object space.

SEE ALSO**node(1)****AUTHORS**

Copyright © 2014, the V8 project authors. All rights reserved.

Manpage adaption and programming copyright © 2016-2019, Alhadis <gardnerjohn@gmail.com>. All rights reserved. Released under the ISC license.