

File

Load...

Sort metric

At t-end (bytes)

```
Invocation {
  Mode: heap
  Command: ./target/debug/rusty-v8-memtest
  PID: 29611
}
```

```
Times {
  t-gmax: 285,284,442 instrs (94.44% of program duration)
  t-end: 302,089,804 instrs
}
```

```
▼ PP 1/1 (5 children) {
  Total: 3,628,306 bytes (100%, 12,010.69/Minstr) in 9,378 blocks (100%, 31.04/Minstr), avg size 386.9 bytes, avg lifetime 28,856,110.27 instrs (9.55% of program duration)
  At t-gmax: 853,363 bytes (100%) in 1,294 blocks (100%), avg size 659.48 bytes
  At t-end: 18,789 bytes (100%) in 553 blocks (100%), avg size 33.98 bytes
  Reads: 34,087,294 bytes (100%, 112,838.28/Minstr), 9.39/byte
  Writes: 24,618,078 bytes (100%, 81,492.58/Minstr), 6.79/byte
  Allocated at {
    #0: [root]
  }
}
```

```
▼ PP 1.1/5 (8 children) {
  Total: 1,628,919 bytes (44.89%, 5,392.17/Minstr) in 8,849 blocks (94.36%, 29.29/Minstr), avg size 184.08 bytes, avg lifetime 26,079,739.84 instrs (8.63% of program duration)
  At t-gmax: 378,368 bytes (44.34%) in 1,136 blocks (87.79%), avg size 333.07 bytes
  At t-end: 10,687 bytes (56.88%) in 525 blocks (94.94%), avg size 20.36 bytes
  Reads: 28,462,196 bytes (83.5%, 94,217.67/Minstr), 17.47/byte
  Writes: 19,840,881 bytes (80.59%, 65,678.75/Minstr), 12.18/byte
  Allocated at {
    #1: 0x6F6BFB: operator new(unsigned long) (new.cpp:67)
  }
}
```

```
PP 1.1.1/8 {
  Total: 4,096 bytes (0.11%, 13.56/Minstr) in 1 blocks (0.01%, 0/Minstr), avg size 4,096 bytes, avg lifetime 162,659,032 instrs (53.84% of program duration)
  Max: 0 bytes in 0 blocks, avg size 0 bytes
  At t-gmax: 4,096 bytes (0.48%) in 1 blocks (0.08%), avg size 4,096 bytes
  At t-end: 4,096 bytes (21.8%) in 1 blocks (0.18%), avg size 4,096 bytes
  Reads: 16 bytes (0%, 0.05/Minstr), 0/byte
  Writes: 24 bytes (0%, 0.08/Minstr), 0.01/byte
  Allocated at {
    ^1: 0x6F6BFB: operator new(unsigned long) (new.cpp:67)
    #2: 0x69B413: std::Cr::deque<std::Cr::unique_ptr<v8::Task> >, std::Cr::allocator<std::Cr::unique_ptr<v8::Task>, std::Cr::default_delete<v8::Task> > >::__add_back_capacity
    #3: 0x69A8C3: v8::platform::DelayedTaskQueue::Append(std::Cr::unique_ptr<v8::Task>, std::Cr::default_delete<v8::Task>) (delayed-task-queue.cc:28)
    #4: 0x699EB7: v8::platform::DefaultWorkerThreadsTaskRunner::PostTask(std::Cr::unique_ptr<v8::Task>, std::Cr::default_delete<v8::Task>) (default-worker-threads-task-runner.cc:42)
    #5: 0x68103B: v8::Platform::CallOnWorkerThread(std::Cr::unique_ptr<v8::Task>, std::Cr::default_delete<v8::Task>) (v8-platform.h:1082)
    #6: 0x18F4FEB: v8::platform::DefaultJobState::NotifyConcurrencyIncrease() (default-job.cc:59)
    #7: 0x1958EEF: v8::internal::baseline::BaselineBatchCompiler::CompileBatchConcurrent(v8::internal::Tagged<v8::internal::SharedFunctionInfo>) (baseline-batch-compiler.cc:328)
    #8: 0x1AA0117: v8::internal::TieringManager::OnInterruptTick(v8::internal::Handle<v8::internal::JSFunction>, v8::internal::CodeKind) (tiering-manager.cc:431)
    #9: 0x1BF7BDF: v8::internal::(<anonymous namespace>)::BytecodeBudgetInterruptWithStackCheck(v8::internal::Isolate*, v8::internal::Arguments<(v8::internal::ArgumentsType)0>&, v8::internal::CodeKind) (runtime-internal.cc:434)
    #10: 0x1BF370F: v8::internal::Runtime_BytecodeBudgetInterruptWithStackCheck_Ignition(int, unsigned long*, v8::internal::Isolate*) (runtime-internal.cc:434)
    #11: 0x13FAABF: Builtins_CEntry_Return1_ArgvOnStack_NoBuiltinExit (in /opt/rusty-v8-memtest/target/debug/rusty-v8-memtest)
  }
}
```

```
▼ PP 1.1.2/8 (2 children) {
  Total: 404,350 bytes (11.14%, 1,338.51/Minstr) in 702 blocks (7.49%, 2.32/Minstr), avg size 576 bytes, avg lifetime 183,220,973.32 instrs (60.65% of program duration)
  At t-gmax: 31,190 bytes (3.65%) in 434 blocks (33.54%), avg size 71.87 bytes
  At t-end: 3,006 bytes (16%) in 418 blocks (75.59%), avg size 7.19 bytes
  Reads: 3,342,200 bytes (9.8%, 11,063.6/Minstr), 8.27/byte
  Writes: 666,008 bytes (2.71%, 2,204.67/Minstr), 1.65/byte
  Allocated at {
    ^1: 0x6F6BFB: operator new(unsigned long) (new.cpp:67)
    #2: 0x6F6D07: operator new[](unsigned long) (new.cpp:107)
  }
}
```

```
▼ PP 1.1.2.1/2 (3 children) {
  Total: 170,302 bytes (4.69%, 563.75/Minstr) in 580 blocks (6.18%, 1.92/Minstr), avg size 293.62 bytes, avg lifetime 218,432,332.85 instrs (72.31% of program duration)
  At t-gmax: 29,646 bytes (3.47%) in 423 blocks (32.69%), avg size 70.09 bytes
  At t-end: 3,006 bytes (16%) in 418 blocks (75.59%), avg size 7.19 bytes
  Reads: 2,547,544 bytes (7.47%, 8,433.07/Minstr), 14.96/byte
  Writes: 370,333 bytes (1.5%, 1,225.9/Minstr), 2.17/byte
  Allocated at {
    ^1: 0x6F6BFB: operator new(unsigned long) (new.cpp:67)
  }
}
```

```

^2: 0x6F6D07: operator new[](unsigned long) (new.cpp:107)
#3: 0x6F6D43: operator new[](unsigned long, std::nothrow_t const&) (new.cpp:119)
}
}
PP 1.1.2.1.1/3 (1 children) {
  Total: 2,554 bytes (0.07%, 8.45/Minstr) in 351 blocks (3.74%, 1.16/Minstr), avg size 7.28 bytes, avg lifetime 300,670,509.73 instrs (99.53% of program duration)
  At t-gmax: 2,554 bytes (0.3%) in 351 blocks (27.13%), avg size 7.28 bytes
  At t-end: 2,554 bytes (13.59%) in 351 blocks (63.47%), avg size 7.28 bytes
  Reads: 44 bytes (0%, 0.15/Minstr), 0.02/byte
  Writes: 5,108 bytes (0.02%, 16.91/Minstr), 2/byte
  Allocated at {
    ^1: 0x6F6BFB: operator new(unsigned long) (new.cpp:67)
    ^2: 0x6F6D07: operator new[](unsigned long) (new.cpp:107)
    ^3: 0x6F6D43: operator new[](unsigned long, std::nothrow_t const&) (new.cpp:119)
    #4: 0x7C6753: v8::internal::CallInterfaceDescriptorData::InitializeTypes(v8::internal::MachineType const*, int) (interface-descriptors.cc:78)
  }
}
PP 1.1.2.1.1.1/1 {
  At t-end: 2,554 bytes (13.59%)
  Allocated at {
    [351 insignificant]
  }
}
PP 1.1.2.1.2/3 (1 children) {
  Total: 452 bytes (0.01%, 1.5/Minstr) in 67 blocks (0.71%, 0.22/Minstr), avg size 6.75 bytes, avg lifetime 300,711,830.3 instrs (99.54% of program duration)
  At t-gmax: 452 bytes (0.05%) in 67 blocks (5.18%), avg size 6.75 bytes
  At t-end: 452 bytes (2.41%) in 67 blocks (12.12%), avg size 6.75 bytes
  Reads: 2 bytes (0%, 0.01/Minstr), 0/byte
  Writes: 452 bytes (0%, 1.5/Minstr), 1/byte
  Allocated at {
    ^1: 0x6F6BFB: operator new(unsigned long) (new.cpp:67)
    ^2: 0x6F6D07: operator new[](unsigned long) (new.cpp:107)
    ^3: 0x6F6D43: operator new[](unsigned long, std::nothrow_t const&) (new.cpp:119)
    #4: 0x7C680B: v8::internal::CallInterfaceDescriptorData::InitializeTypes(v8::internal::MachineType const*, int) (interface-descriptors.cc:75)
  }
}
PP 1.1.2.1.2.1/1 {
  At t-end: 452 bytes (2.41%)
  Allocated at {
    [67 insignificant]
  }
}
PP 1.1.2.1.3/3 {
  At t-end: 0 bytes (0%)
  Allocated at {
    [7 insignificant]
  }
}
PP 1.1.2.2/2 {
  At t-end: 0 bytes (0%)
  Allocated at {
    [10 insignificant]
  }
}
PP 1.1.3/8 {
  At t-end: 1,809 bytes (9.63%)
  Allocated at {
    [259 insignificant]
  }
}
PP 1.1.4/8 {
  Total: 520 bytes (0.01%, 1.72/Minstr) in 5 blocks (0.05%, 0.02/Minstr), avg size 104 bytes, avg lifetime 301,060,397 instrs (99.66% of program duration)
  Max: 520 bytes in 5 blocks, avg size 104 bytes
  At t-gmax: 520 bytes (0.06%) in 5 blocks (0.39%), avg size 104 bytes
  At t-end: 520 bytes (2.77%) in 5 blocks (0.9%), avg size 104 bytes
  Reads: 1,098 bytes (0%, 3.63/Minstr), 2.11/byte
  Writes: 748 bytes (0%, 2.48/Minstr), 1.44/byte
  Accesses: {
    [ 0] 15 " " " " " " " " 30 " " " " " " " " 10 " " " " " " " " " " " " " " 5 "
    [32] 15 " " " " 10 " " " " " " " " " " " " 31 " " " " " " " " 27 " " " " " " " "
    [64] 15 " " " " " " " " 23 " " " " 11 " " " " 9 " " " " 6 " " " " 16 " " " " 37 " " "
    [96] 29 " " " " 12 " " "
  }
  Allocated at {
    ^1: 0x6F6BFB: operator new(unsigned long) (new.cpp:67)
    #2: 0x699C0B: v8::platform::DefaultWorkerThreadsTaskRunner::DefaultWorkerThreadsTaskRunner(unsigned int, double (*)( ), v8::base::Thread::Priority) (default-worker-threads-task-runner.cc:18)
    #3: 0x69833F: v8::platform::DefaultPlatform::EnsureBackgroundTaskRunnerInitialized() (default-platform.cc:141)
    #4: 0x697B17: v8::platform::NewDefaultPlatform(int, v8::platform::IdleTaskSupport, v8::platform::InProcessStackDumping, std::Cr::unique_ptr<v8::TracingController, std::Cr::default_delete<v8::TracingController>()>()) (default-platform.cc:141)
  }
}

```



```

#5: 0x697B17: v8::platform::NewDefaultPlatform(int, v8::platform::IdleTaskSupport, std::Cr::unique_ptr<v8::TracingController, std::Cr::default_delete<v8::TracingController>>*) (platform.cc:2643)
#6: 0x6728D7: v8__Platform__NewDefaultPlatform (binding.cc:2643)
#7: 0x26127F: new (platform.rs:133)
#8: 0x26127F: new_default_platform (platform.rs:80)
#9: 0x26127F: deno_core::runtime::jsruntime::v8_init:{{closure}} (jsruntime.rs:361)
#10: 0x24CA8B: core::option::Option<T>::unwrap_or_else (option.rs:979)
#11: 0x2611EF: deno_core::runtime::jsruntime::v8_init (jsruntime.rs:360)
#12: 0x261847: deno_core::runtime::jsruntime::JsRuntime::init_v8:{{closure}} (jsruntime.rs:546)
#13: 0x24508B: std::sync::once::Once::call_once:{{closure}} (once.rs:149)
}
}
PP 1.1.6.2/2 {
  At t-end: 0 bytes (0%)
  Allocated at {
    [1 insignificant]
  }
}
PP 1.1.7/8 {
  Total: 296 bytes (0.01%, 0.98/Minstr) in 1 blocks (0.01%, 0/Minstr), avg size 296 bytes, avg lifetime 248,826,854 instrs (82.37% of program duration)
  Max: 0 bytes in 0 blocks, avg size 0 bytes
  At t-gmax: 296 bytes (0.03%) in 1 blocks (0.08%), avg size 296 bytes
  At t-end: 296 bytes (1.58%) in 1 blocks (0.18%), avg size 296 bytes
  Reads: 236 bytes (0%, 0.78/Minstr), 0.8/byte
  Writes: 389 bytes (0%, 1.29/Minstr), 1.31/byte
  Accesses: {
    [ 0] 1 " " " " " " " " " " 43 " " " " " " " " " " 1 " " " " " " " " " " 2 " " " " " " " " " "
    [ 32] 1 - - - - - 1 " " " " " " " " " " " " " " " " " " " " " " 2 " " " " 1 " " " "
    [ 64] 1 " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " "
    [ 96] 1 " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " "
    [128] 1 " " " " 3 " " " " 1 " " " " " " " " " " " " " " " " " " " " " " " " " " " " "
    [160] 1 " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " "
    [192] 1 " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " "
    [224] 1 " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " "
    [256] 1 " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " "
    [288] 1 " " " " " " " " " "
  }
  Allocated at {
    ^1: 0x6F6BFB: operator new(unsigned long) (new.cpp:67)
    #2: 0x6987D3: v8::platform::DefaultPlatform::GetForegroundTaskRunner(v8::Isolate*) (default-platform.cc:206)
    #3: 0x91723F: v8::internal::Heap::SetUp(v8::internal::LocalHeap*) (heap.cc:5439)
    #4: 0x886453: v8::internal::Isolate::Init(v8::internal::SnapshotData*, v8::internal::SnapshotData*, bool) (isolate.cc:4494)
    #5: 0x887477: v8::internal::Isolate::InitWithSnapshot(v8::internal::SnapshotData*, v8::internal::SnapshotData*, v8::internal::SnapshotData*, bool) (isolate.cc:4178)
    #6: 0xE93933: v8::internal::Snapshot::Initialize(v8::internal::Isolate*) (snapshot.cc:199)
    #7: 0x77FA73: v8::Isolate::Initialize(v8::Isolate*, v8::Isolate::CreateParams const&) (api.cc:9369)
    #8: 0x77FE1B: v8::Isolate::New(v8::Isolate::CreateParams const&) (api.cc:9405)
    #9: 0x667CF3: v8__Isolate__New (binding.cc:152)
    #10: 0x66165F: v8::isolate::Isolate::new (isolate.rs:576)
    #11: 0x262573: deno_core::runtime::jsruntime::JsRuntime::new_inner (jsruntime.rs:652)
  }
}
PP 1.1.8/8 {
  Total: 288 bytes (0.01%, 0.95/Minstr) in 1 blocks (0.01%, 0/Minstr), avg size 288 bytes, avg lifetime 301,065,137 instrs (99.66% of program duration)
  Max: 0 bytes in 0 blocks, avg size 0 bytes
  At t-gmax: 288 bytes (0.03%) in 1 blocks (0.08%), avg size 288 bytes
  At t-end: 288 bytes (1.53%) in 1 blocks (0.18%), avg size 288 bytes
  Reads: 1,648 bytes (0%, 5.46/Minstr), 5.72/byte
  Writes: 786 bytes (0%, 2.6/Minstr), 2.73/byte
  Accesses: {
    [ 0] 1 " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " "
    [ 32] 2 - - - - - 52 " " " " 1 " " " " 41 " " " " 19 " " " " 73 " " " " 1 " " " "
    [ 64] 1 " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " "
    [ 96] 19 " " " " " " " " " " 20 " " " " " " " " " " 11 " " " " " " " " " " 16 " " " " " " " " " "
    [128] 22 " " " " " " " " " " 14 " " " " " " " " " " 4 " " " " " " " " " " 8 " " " " " " " " " "
    [160] 6 " " " " " " " " " " 4 " " " " " " " " " " 8 " " " " " " " " " " 14 " " " " " " " " " "
    [192] 1 " " " " " " " " " " " " " " " " " " " " " " 14 " " " " " " " " " " 8 - - - - -
    [224] 8 " " " " " " " " " " 1 " " " " " " " " " " " " " " " " " " " " " " " " " " " "
    [256] 1 " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " "
  }
  Allocated at {
    ^1: 0x6F6BFB: operator new(unsigned long) (new.cpp:67)
    #2: 0x698313: v8::platform::DefaultPlatform::EnsureBackgroundTaskRunnerInitialized() (default-platform.cc:141)
    #3: 0x697B17: v8::platform::NewDefaultPlatform(int, v8::platform::IdleTaskSupport, std::Cr::unique_ptr<v8::TracingController, std::Cr::default_delete<v8::TracingController>>*) (platform.cc:2643)
    #4: 0x6728D7: v8__Platform__NewDefaultPlatform (binding.cc:2643)
    #5: 0x26127F: new (platform.rs:133)
    #6: 0x26127F: new_default_platform (platform.rs:80)
  }
}

```

```

#7: 0x26127F: deno_core::runtime::jsruntime::v8_init::{{closure}} (jsruntime.rs:361)
#8: 0x24CA8B: core::option::Option<T>::unwrap_or_else (option.rs:979)
#9: 0x2611EF: deno_core::runtime::jsruntime::v8_init (jsruntime.rs:360)
#10: 0x261847: deno_core::runtime::jsruntime::JsRuntime::init_v8::{{closure}} (jsruntime.rs:546)
#11: 0x24508B: std::sync::once::Once::call_once::{{closure}} (once.rs:149)
#12: 0x414B6B: std::sys_common::once::futex::Once::call (futex.rs:124)
#13: 0x244F6B: std::sync::once::Once::call_once (once.rs:149)
}
}
PP 1.2/5 (3 children) {
  Total: 3,430 bytes (0.09%, 11.35/Minstr) in 5 blocks (0.05%, 0.02/Minstr), avg size 686 bytes, avg lifetime 259,328,657.6 instrs (85.84% of program duration)
  At t-gmax: 3,430 bytes (0.4%) in 5 blocks (0.39%), avg size 686 bytes
  At t-end: 3,430 bytes (18.26%) in 5 blocks (0.9%), avg size 686 bytes
  Reads: 608 bytes (0%, 2.01/Minstr), 0.18/byte
  Writes: 2,880 bytes (0.01%, 9.53/Minstr), 0.84/byte
  Allocated at {
    #1: 0x103053B: uprv_malloc_73 (cmemory.cpp:58)
  }
}
PP 1.2.1/3 {
  Total: 3,048 bytes (0.08%, 10.09/Minstr) in 1 blocks (0.01%, 0/Minstr), avg size 3,048 bytes, avg lifetime 248,867,335 instrs (82.38% of program duration)
  Max: 3,048 bytes in 1 blocks, avg size 3,048 bytes
  At t-gmax: 3,048 bytes (0.36%) in 1 blocks (0.08%), avg size 3,048 bytes
  At t-end: 3,048 bytes (16.22%) in 1 blocks (0.18%), avg size 3,048 bytes
  Reads: 28 bytes (0%, 0.09/Minstr), 0.01/byte
  Writes: 2,560 bytes (0.01%, 8.47/Minstr), 0.84/byte
  Allocated at {
    #1: 0x103053B: uprv_malloc_73 (cmemory.cpp:58)
    #2: 0x10A7BEB: _uhash_allocate(UHashtable*, int, UErrorCode*) (uhash.cpp:228)
    #3: 0x10A593B: _uhash_init(UHashtable*, int (*)(UElement), signed char (*)(UElement, UElement), signed char (*)(UElement, UElement), int, UErrorCode*) (uhash.cpp:271)
    #4: 0x10A56E3: _uhash_create(int (*)(UElement), signed char (*)(UElement, UElement), signed char (*)(UElement, UElement), int, UErrorCode*) (uhash.cpp:296)
    #5: 0x10A563F: uhash_open_73 (uhash.cpp:547)
    #6: 0x10493FF: icu_73::locale_set_default_internal(char const*, UErrorCode&) (locid.cpp:200)
    #7: 0x104A16F: icu_73::Locale::getDefault() (locid.cpp:2038)
    #8: 0x104982B: icu_73::Locale::init(char const*, signed char) (locid.cpp:1845)
    #9: 0x104A30F: icu_73::Locale::Locale() (locid.cpp:272)
    #10: 0x88DF77: v8::internal::Isolate::DefaultLocale() (isolate.cc:6036)
    #11: 0x898847: v8::internal::LocalIsolate::LocalIsolate(v8::internal::Isolate*, v8::internal::ThreadKind) (local-isolate.cc:28)
  }
}
PP 1.2.2/3 {
  Total: 224 bytes (0.01%, 0.74/Minstr) in 1 blocks (0.01%, 0/Minstr), avg size 224 bytes, avg lifetime 248,864,039 instrs (82.38% of program duration)
  Max: 224 bytes in 1 blocks, avg size 224 bytes
  At t-gmax: 224 bytes (0.03%) in 1 blocks (0.08%), avg size 224 bytes
  At t-end: 224 bytes (1.19%) in 1 blocks (0.18%), avg size 224 bytes
  Reads: 311 bytes (0%, 1.03/Minstr), 1.39/byte
  Writes: 103 bytes (0%, 0.34/Minstr), 0.46/byte
  Accesses: {
    [ 0] 3 " " " " " " " " 4 2 " - - - - - 3 - - - - 4 2 " - - -
    [ 32] 4 " " " " " " " " " " " " " " 10 9 8 9 " " " " 9 - - - -
    [ 64] - - - - - - - - - - - - - - - - - - - - - - - - - - - -
    [ 96] - - - - - - - - - - - - - - - - - - - - - - - - - - - -
    [128] - - - - - - - - - - - - - - - - - - - - - - - - - - - -
    [160] - - - - - - - - - - - - - - - - - - - - - - - - - - - -
    [192] - - - - - - - - - - - 12 " " " " " " " " 3 - - - - - -
  }
  Allocated at {
    #1: 0x103053B: uprv_malloc_73 (cmemory.cpp:58)
    #2: 0x10DC6A7: icu_73::UMemory::operator new(unsigned long) (uobject.cpp:62)
    #3: 0x104949F: icu_73::locale_set_default_internal(char const*, UErrorCode&) (locid.cpp:210)
    #4: 0x104A16F: icu_73::Locale::getDefault() (locid.cpp:2038)
    #5: 0x104982B: icu_73::Locale::init(char const*, signed char) (locid.cpp:1845)
    #6: 0x104A30F: icu_73::Locale::Locale() (locid.cpp:272)
    #7: 0x88DF77: v8::internal::Isolate::DefaultLocale() (isolate.cc:6036)
    #8: 0x898847: v8::internal::LocalIsolate::LocalIsolate(v8::internal::Isolate*, v8::internal::ThreadKind) (local-isolate.cc:28)
    #9: 0x8862EB: v8::internal::Isolate::Init(v8::internal::SnapshotData*, v8::internal::SnapshotData*, v8::internal::SnapshotData*, bool) (isolate.cc:4460)
    #10: 0x887477: v8::internal::Isolate::InitWithSnapshot(v8::internal::SnapshotData*, v8::internal::SnapshotData*, v8::internal::SnapshotData*, bool) (isolate.cc:4178)
    #11: 0xE93933: v8::internal::Snapshot::Initialize(v8::internal::Isolate*) (snapshot.cc:199)
  }
}
PP 1.2.3/3 {
  At t-end: 158 bytes (0.84%)
  Allocated at {
    [3 insignificant]
  }
}
PP 1.3/5 (2 children) {
  Total: 29,160 bytes (0.8%, 96.53/Minstr) in 91 blocks (0.97%, 0.3/Minstr), avg size 320.44 bytes, avg lifetime 273,801,021.3 instrs (90.64% of program duration)

```

```

At t-gmax: 23,064 bytes (2.7%) in 88 blocks (6.8%), avg size 262.09 bytes
At t-end: 3,056 bytes (16.26%) in 3 blocks (0.54%), avg size 1,018.67 bytes
Reads: 42,974 bytes (0.13%, 142.26/Minstr), 1.47/byte
Writes: 33,426 bytes (0.14%, 110.65/Minstr), 1.15/byte
Allocated at {
  #1: 0x4FC68B: alloc (alloc.rs:102)
  #2: 0x4FC68B: alloc::alloc::Global::alloc_impl (alloc.rs:185)
}
}
PP 1.3.1/2 (3 children) {
  Total: 20,176 bytes (0.56%, 66.79/Minstr) in 11 blocks (0.12%, 0.04/Minstr), avg size 1,834.18 bytes, avg lifetime 262,444,620.27 instrs (86.88% of program duration)
  At t-gmax: 14,144 bytes (1.66%) in 10 blocks (0.77%), avg size 1,414.4 bytes
  At t-end: 3,032 bytes (16.14%) in 2 blocks (0.36%), avg size 1,516 bytes
  Reads: 28,031 bytes (0.08%, 92.79/Minstr), 1.39/byte
  Writes: 19,532 bytes (0.08%, 64.66/Minstr), 0.97/byte
  Allocated at {
    ^1: 0x4FC68B: alloc (alloc.rs:102)
    ^2: 0x4FC68B: alloc::alloc::Global::alloc_impl (alloc.rs:185)
    #3: 0x50CEE3: <alloc::alloc::Global as core::alloc::Allocator>::allocate (alloc.rs:245)
  }
}
PP 1.3.1.1/3 (2 children) {
  Total: 1,896 bytes (0.05%, 6.28/Minstr) in 2 blocks (0.02%, 0.01/Minstr), avg size 948 bytes, avg lifetime 299,608,410.5 instrs (99.18% of program duration)
  At t-gmax: 1,896 bytes (0.22%) in 2 blocks (0.15%), avg size 948 bytes
  At t-end: 1,888 bytes (10.05%) in 1 blocks (0.18%), avg size 1,888 bytes
  Reads: 1,136 bytes (0%, 3.76/Minstr), 0.6/byte
  Writes: 1,136 bytes (0%, 3.76/Minstr), 0.6/byte
  Allocated at {
    ^1: 0x4FC68B: alloc (alloc.rs:102)
    ^2: 0x4FC68B: alloc::alloc::Global::alloc_impl (alloc.rs:185)
    ^3: 0x50CEE3: <alloc::alloc::Global as core::alloc::Allocator>::allocate (alloc.rs:245)
    #4: 0x4FE9CF: alloc::raw_vec::RawVec<T,A>::allocate_in (raw_vec.rs:184)
    #5: 0x2C26D7: with_capacity_in<v8::external_references::ExternalReference, alloc::alloc::Global> (raw_vec.rs:130)
    #6: 0x2C26D7: with_capacity_in<v8::external_references::ExternalReference, alloc::alloc::Global> (mod.rs:670)
    #7: 0x2C26D7: alloc::vec::Vec<T>::with_capacity (mod.rs:479)
  }
}
PP 1.3.1.1.1/2 {
  Total: 1,888 bytes (0.05%, 6.25/Minstr) in 1 blocks (0.01%, 0/Minstr), avg size 1,888 bytes, avg lifetime 299,701,443 instrs (99.21% of program duration)
  Max: 0 bytes in 0 blocks, avg size 0 bytes
  At t-gmax: 1,888 bytes (0.22%) in 1 blocks (0.08%), avg size 1,888 bytes
  At t-end: 1,888 bytes (10.05%) in 1 blocks (0.18%), avg size 1,888 bytes
  Reads: 1,136 bytes (0%, 3.76/Minstr), 0.6/byte
  Writes: 1,136 bytes (0%, 3.76/Minstr), 0.6/byte
  Allocated at {
    ^1: 0x4FC68B: alloc (alloc.rs:102)
    ^2: 0x4FC68B: alloc::alloc::Global::alloc_impl (alloc.rs:185)
    ^3: 0x50CEE3: <alloc::alloc::Global as core::alloc::Allocator>::allocate (alloc.rs:245)
    ^4: 0x4FE9CF: alloc::raw_vec::RawVec<T,A>::allocate_in (raw_vec.rs:184)
    ^5: 0x2C26D7: with_capacity_in<v8::external_references::ExternalReference, alloc::alloc::Global> (raw_vec.rs:130)
    ^6: 0x2C26D7: with_capacity_in<v8::external_references::ExternalReference, alloc::alloc::Global> (mod.rs:670)
    ^7: 0x2C26D7: alloc::vec::Vec<T>::with_capacity (mod.rs:479)
    #8: 0x29984F: deno_core::runtime::bindings::external_references (bindings.rs:30)
    #9: 0x262173: deno_core::runtime::jsruntime::JsRuntime::new_inner (jsruntime.rs:626)
    #10: 0x26137F: deno_core::runtime::jsruntime::JsRuntime::new (jsruntime.rs:498)
    #11: 0x240F03: rusty_v8_memtest::main (main.rs:2)
    #12: 0x240EC3: core::ops::function::FnOnce::call_once (function.rs:250)
    #13: 0x240F5F: std::sys_common::backtrace::__rust_begin_short_backtrace (backtrace.rs:135)
    #14: 0x240B53: std::rt::lang_start::{closure} (rt.rs:166)
  }
}
PP 1.3.1.1.2/2 {
  At t-end: 0 bytes (0%)
  Allocated at {
    [1 insignificant]
  }
}
PP 1.3.1.2/3 {
  Total: 1,144 bytes (0.03%, 3.79/Minstr) in 1 blocks (0.01%, 0/Minstr), avg size 1,144 bytes, avg lifetime 299,684,668 instrs (99.2% of program duration)
  Max: 0 bytes in 0 blocks, avg size 0 bytes
  At t-gmax: 1,144 bytes (0.13%) in 1 blocks (0.08%), avg size 1,144 bytes
  At t-end: 1,144 bytes (6.09%) in 1 blocks (0.18%), avg size 1,144 bytes
  Reads: 4,592 bytes (0.01%, 15.2/Minstr), 4.01/byte
  Writes: 1,144 bytes (0%, 3.79/Minstr), 1/byte
  Allocated at {
    ^1: 0x4FC68B: alloc (alloc.rs:102)
    ^2: 0x4FC68B: alloc::alloc::Global::alloc_impl (alloc.rs:185)
    ^3: 0x50CEE3: <alloc::alloc::Global as core::alloc::Allocator>::allocate (alloc.rs:245)
    #4: 0x4FCD2B: alloc::raw_vec::RawVec<T,A>::allocate_in (raw_vec.rs:184)
  }
}

```


- 'avg': average
- '1' (in accesses): zero
- '∞' (in accesses): leaf PP counts max out at 65534; larger counts are treated as infinity
- 'n' (in accesses): same as previous entry

Processing time: read:2.7ms + parse:2.4ms + build:13ms + display:3.2ms = total:21.3ms