

<--- Last few GCs --->

18461766 ms: Mark-sweep 1270.1 (1434.1) -> 1269.2 (1434.1) MB, 1865.4 / 0.0 ms [allocation failure] [GC in old space requested].
18463664 ms: Mark-sweep 1269.2 (1434.1) -> 1269.0 (1434.1) MB, 1898.6 / 0.0 ms [allocation failure] [GC in old space requested].
18465511 ms: Mark-sweep 1269.0 (1434.1) -> 1273.2 (1404.1) MB, 1846.3 / 0.0 ms [last resort gc].
18467453 ms: Mark-sweep 1273.2 (1404.1) -> 1280.4 (1404.1) MB, 1942.1 / 0.0 ms [last resort gc].

<--- JS stacktrace --->

==== JS stack trace =====

Security context: 0xf9d44acfb51 <JS Object>

1: extend(aka extend) [/opt/meituan/apps/meituan.ia.fe.iphoenix/node_modules/vue-server-renderer/build.js:357] [pc=0x396d43ef031c]
(this=0xf9d44a04381 <undefined>,to=0x16a3ddcdc579 <an Object with
map 0x22b06f2075e9>,_from=0x1399a71c1d79 <an Object with map 0x26c2a9bcb29>)
2: getStyle(aka getStyle) [/opt/meituan/apps/meituan.ia.fe.iphoenix/node_modules/vue-server-renderer/build.js:2853] ...

FATAL ERROR: CALL_AND_RETRY_LAST Allocation failed - JavaScript heap out of memory

1: node::Abort() [node]
2: 0x109838c [node]
3: v8::Utils::ReportApiFailure(char const*, char const*) [node]
4: v8::internal::V8::FatalProcessOutOfMemory(char const*, bool) [node]
5: v8::internal::Factory::NewTransitionArray(int) [node]
6: v8::internal::TransitionArray::Insert(v8::internal::Handle<v8::internal::Map>, v8::internal::Handle<v8::internal::Name>,
v8::internal::Handle<v8::internal::Map>, v8::internal::SimpleTransitionFlag
... ..

内存溢出 原因 & 排查

- 缓存未设置maxSize，无限制缓存 占满v8 1.5g左右内存 => LRU 算法动态缓存
- 全局对象：无限制的增长数组、设置对象属性和值 => 常驻内存
- 服务端渲染：
 - 客户端源码引入全局变量、闭包
 - Vue组件生命周期中滥用 全局事件监听

@see <http://docs.sankuai.com/doc/ia/i-zhenguo-docs/documents/heap-out-of-memory/>