Introduction

Go is fully supported on Linux and Darwin. Any Go program that you can compile for x86/x86_64 should work on Arm. Besides Linux and Darwin, Go is also experimentally supported on FreeBSD, OpenBSD and NetBSD.

Supported architectures

Go supports the following ARM architectural families.

Architecture	Status	GOARM value	GOARCH value
ARMv4 and below	not supported	n/a	n/a
ARMv5	supported	GOARM=5	GOARCH=arm
ARMv6	supported	GOARM=6	GOARCH=arm
ARMv7	supported	GOARM=7	GOARCH=arm
ARMv8	supported	n/a	GOARCH=arm64

Starting from Go 1.1, the appropriate GOARM value will be chosen if you compile the program from source on the target machine. In cross compilation situations, it is recommended that you always set an appropriate GOARM value along with GOARCH.

Supported operating systems

- ARM on Linux, You must run an <u>EABI</u> kernel. These are generally known as armel for softfloat (compatible with ARMv5) or armhf for hardware floating point (ARMv6 and above).
- · ARM on Darwin: ARMv7 is required.
- ARM on FreeBSD, OpenBSD, and NetBSD: ARMv6K or above is required.

Recommended Go version

Go has a mature support for ARM systems; so, just like for other architectures, use the latest stable version (eg: Go 1.15 at the time of writing).

Tips and tricks

/tmp and tmpfs

The go build tool uses /tmp when compiling and testing, this can cause heavy wear and tear if /tmp lives on your SD card. To minimise this effect, either export

TMPDIR to somewhere that lives on another filesystem. Alternatively if you have lots of physical memory you can mount a swap backed tmpfs filesystem on /tmp by adding
this line to /etc/fstab

```
tmpfs /tmp tmpfs nodev,nosuid,mode=1777 0 0
```

Swap

Building Go from source requires at least 256mb of RAM. Running the tests requires at least 256mb of memory and at least 512mb of swap space.

Test failures due to resource starvation

The runtime tests create many native operating system threads which at the default of 8mb per thread can exhaust an ARM system with 32bit user mode address space (especially on multicore ARM systems such as the Raspberry PI 2). To prevent the runtime test from failing you may need lower the thread stack limit:

```
% ulimit -s 1024  # set the thread stack limit to 1mb
% ulimit -s  # check that it worked
1024
```

See <u>Dave Cheney's blog post about building Go on Raspberry Pi</u> for details.

Build failures due to lack of memory

The Go tool will try to keep all your cpu cores busy when installing packages (during make.bash), this is normally preferable on PCs where memory is abundant. However, some powerful multicore ARM machines don't have enough memory to support parallel builds utilizing all available cores, and you can work around that by using the taskset(1) utility to limit Go to only use one core without resorting to swaps.

```
taskset 1 ./make.bash # use 3 if you want to use two cores
```

Note: the 1 here is a bitmask for cpu affinity and it's not the number of cpu cores you're willing to use, please refer to taskset (1) manual for details.

Known issues

Lack of floating point hardware on ARMv5

The major issue with ARMv5 is the lack of floating point support in common ARMv5 hardware. When compiled with the GOARM=5 environment variable, the 5I linker will insert a call to _sfloat before any block of floating point instructions to branch into the floating point emulator. This means that binaries produced with a Go installation that was compiled with soft float support will work on all supported architectures, but builds compiled without soft floating point support will not work on ARMv5.

html/template and test/nilptr.go test fail on HTC Android

html/template test and test/nilptr.go is known to fail on HTC's Android kernels (ref), because the kernel will kill the application after 10 segfaults.

Potential kernel bug in 2.6.32-5-kirkwood on QNAP 219P

See Issue 5466 for details. Updating to 3.2.0-4-kirkwood solved the issue.

Success stories

ARM hardware comes in a myriad of shapes and sizes. If you've had a success story building and running Go on your Arm system, please detail your results here.

Netgear Stora

Architecture: ARMv5

Operating System: Debian Sid

The Netgear Stora is an ARMv5 (Marvell Kirkwood) platform. I flashed mine with a Debian Sid distribution and it was, until Go1, a solid platform for Go development. The main drawback is the Stora only has 128mb of ram, which is not quite enough to run./all.bash as 5l can use more than 100mb of ram when linking some commands.

Instructions for installing Debian on your Stora can be found on the OpenStora website, http://www.openstora.com/wiki/index.php? title=How to install Debian Linux on NETGEAR Stora.

-- dave cheney

Qnap TS-119P II

Architecture: ARMv5

Operating System: Debian Squeeze

The Qnap TS series of NASs are excellent hackable little linux hosts. The TS-11P9 II is a 2Ghz Marvell Kirkwood ARMv5 processor with 512mb of ram and a single SATA drive bay.

 $The kirkwood platform is supported by the native debian installer. \\ \underline{http://www.cyrius.com/debian/kirkwood/qnap/ts-119/install.html} \\$

-- dave cheney

Pandaboard

Architecture: ARMv7

Operating System: Ubuntu 12.04LTS (armhf)

The Pandaboard is a dual core ARMv7 development board based on the Texas Instruments OMAP4 SoC platform. I run ubuntu 12.04 LTS server on mine, which is an excellent distribution for Arm development. The Pandaboard has a gig of ram which makes it excellent for development and benchmarking.

Instructions and SD card image can be found on on the Ubuntu wiki, https://wiki.ubuntu.com/ARM/Server/Install#Installing_pre-installed_OMAP4 Precise _2812_04.29 Server Images.

-- dave cheney

BeagleBone

Architecture: ARMv7 single core, Cortex-A8, 256MB RAM, 720 MHz

Operating System: Angstrom Linux

BeagleBone is similar to Beagleboard, but without the video components. Angstrom is a very small Linux distribution for ARM based systems. It is built on top of Yocto and OpenEmbedded with additional tools and recipes to make it even easier to build a distribution. You can think of Angstrom as Ubuntu and OpenEmbedded/Yocto as Debian. Angstrom is very light weight and fast compared to Ubuntu. It uses systemd instead of the sys5 scripts which help give you a very fast boot time of a few seconds.

BeagleBone is probably faster than a RasberryPI because of it's newer Cortex-A8 dual-issue superscalar architecture, but the PI has the GPU which theoretically could be used with something like OpenCL to really run circles around the BeagleBone. However, for embedded applications the BeagleBone is easier to work with because it is ready out of the box with GPIO connections.

I've cross compiled for ARM with 5g from a Mac and so far I haven't run into any problems. You can build on the BeagleBone, but cross compiling with Go is so easy that it is better to save wear and tear on the flash drive and just compile somewhere else.

-- hans stimer

Zyxel NSA 310

[†] This isn't strictly true, there exist ARMv5 implementations which have VFP1 floating point. However the compiler doesn't support VFP1 yet.

Architecture: ARM5 Platform: Debian Wheeze

Successfuly built default branch, going to write fan control daemon for this device in golang.

Raspberry Pi

Building Go 1.5 on the Raspberry Pi - Dave Cheney

Architecture: ARM1176JZFS, with floating point, running at 700Mhz

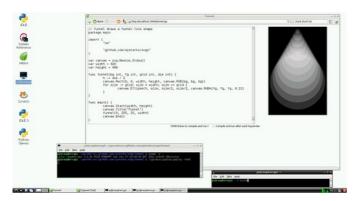
Operating System: Debian Wheezy beta distribution (http://www.raspberrypi.org/archives/1435) reported as:

```
Linux raspberrypi 3.1.9+ #125 PREEMPT Sun Jun 17 16:09:36 BST 2012 armv61 GNU/Linux
```

Memory Split: the Pi shares its 256mb of memory between the CPU and the GPU. You should allocate as much memory as possible to the CPU for a successful compilation. The configuration for the memory split is stored on your SD card. This link has a script to adjust the configuration, http://sirlagz.net/?p=445.

Go version weekly.2012-03-27 +645947213cac, with timeout and GOARM 7 patches http://codereview.appspot.com/5987063/) builds with 2 test failures: encoding/gob fails with out of memory, and fmt fails the NaN test.

Successfully installed and run SVGo via go get github.com/ajstarks/svgo, tested with goplay:



Division benchmark via http://codereview.appspot.com/6258067

```
$ cd $GOROOT/src/pkg/runtime
$ go test -test.bench=BenchmarkUint
BenchmarkUint32Div7
                         5000000
                                                 547 ns/op
BenchmarkUint32Div37 5000000
                                                 547 ns/op
BenchmarkUint32Div123 5000000
BenchmarkUint32Div763 5000000
                                                 547 ns/op
                                                 547 ns/op
BenchmarkUint32Div1247 5000000
                                                 547 ns/op
BenchmarkUint32Div9305 5000000
                                                 547 ns/op
BenchmarkUint32Div13307 5000000
                                                 547 ns/op
BenchmarkUint32Div52513 5000000
                                                 547 ns/op
BenchmarkUint32Div60978747 5000000
BenchmarkUint32Div106956295 5000000
                                                         547 ns/op
                                                         547 ns/op
BenchmarkUint32Mod7 5000000
BenchmarkUint32Mod37 5000000
                                                547 ns/op
                                                 547 ns/op
BenchmarkUint32Mod123 5000000
BenchmarkUint32Mod763 5000000
                                                 547 ns/op
                                                 547 ns/op
BenchmarkUint32Mod1247 5000000
                                                547 ns/op
BenchmarkUint32Mod9305 5000000
                                                 547 ns/op
BenchmarkUint32Mod13307 5000000
                                                 547 ns/op
BenchmarkUint32Mod52513 5000000
                                                 547 ns/op
BenchmarkUint32Mod60978747 5000000
                                                         547 ns/op
BenchmarkUint32Mod106956295
                                  5000000
                                                          547 ns/op
```

Running the hardware floating point distribution, Raspbian "pisces" (https://gist.github.com/3116118, here are the results of the Eleanor McHugh gospeed benchmark:

```
raspbian@pisces:-/gowork/src/github.com/feyeleanor/gospeed$ uname -a
Linux pisces 3.1.9+ #171 PREEMPT Tue Jul 17 01:08:22 BST 2012 armv61 GNU/Linux
raspbian@pisces:-/gowork/src/github.com/feyeleanor/gospeed$ go test -test.bench=".*"
PASS

BenchmarkBaselineCastInt32ToInt 100000000 13.5 ns/op
BenchmarkBaselineCastIntToInt32 100000000 13.5 ns/op
BenchmarkBaselineCastInt64ToUint64 10000000 17.8 ns/op
BenchmarkBaselineCastUint64ToInt64 10000000 17.2 ns/op
BenchmarkBaselineVariableGet 100000000 13.4 ns/op
BenchmarkBaselineVariableSet 100000000 22.4 ns/op
BenchmarkBaselineVariableGetInterface 100000000 13.5 ns/op
```

```
BenchmarkBaselineVariableSetInterface 50000000
                                                          31.3 ns/op
BenchmarkBaselineVariableIncrement
                                                            23.9 ns/op
                                     100000000
                                     100000000
                                                            23.9 ns/op
BenchmarkBaselineVariableDecrement
                            100000000
BenchmarkBaselineFieldGet
                                                    13.5 ns/op
                              100000000
                                                     20.9 ns/op
BenchmarkBaselineFieldSet
                            50000000
                                                    32.9 ns/op
BenchmarkBaselineSliceGet
                              50000000
BenchmarkBaselineSliceSet
                                                     34.5 ns/op
                                                  1448 ns/op
BenchmarkBaselineMapIntGet
                              1000000
BenchmarkBaselineMapIntSet
                               1000000
                                                   1968 ns/op
BenchmarkBaselineMapStringGet
                             1000000
                                                  1119 ns/op
BenchmarkBaselineMapStringSet
                               1000000
                                                   1675 ns/op
BenchmarkBaselineIf 100000000
                                             15.0 ns/op
BenchmarkBaselineIfElse 100000000
                                             15.0 ns/op
BenchmarkBaselineSwitchDefault 100000000
                                                   13.5 ns/op
BenchmarkBaselineSwitchOneCase 100000000
                                                    15.0 ns/op
                                                    18.0 ns/op
BenchmarkBaselineSwitchTwoCases 100000000
BenchmarkBaselineSwitchTwoCasesFallthrough
                                             100000000
                                                                    18.0 ns/op
                                                            42.0 ns/op
BenchmarkBaselineForLoopIteration 50000000
                                           50000000
                                                                    36.0 ns/op
BenchmarkBaselineForReverseLoopIteration
                                                   80.9 ns/op
BenchmarkBaselineForRange
                             20000000
BenchmarkBaselineForSliceLength 50000000
                                                     39.0 ns/op
                                                            36.0 ns/op
BenchmarkBaselineForReverseSliceLength 50000000
BenchmarkBaselineForLoopIteration10 20000000
                                                           119 ns/op
                                                                    92.9 ns/op
BenchmarkBaselineForReverseLoopIteration10
                                            20000000
BenchmarkBaselineForRange10 10000000
BenchmarkBaselineForSliceLength10
                                     20000000
                                                           109 ns/op
                                                                    92.9 ns/op
BenchmarkBaselineForReverseSliceLength10
                                           20000000
BenchmarkBaselineForLoopIteration100 2000000
                                                           929 ns/op
                                                                   700 ns/op
BenchmarkBaselineForReverseLoopIteration100 5000000
BenchmarkBaselineForRange100
                              1000000
                                                1567 ns/op
                                     2000000
BenchmarkBaselineForSliceLength100
                                                           853 ns/op
                                             5000000
                                                                  700 ns/op
BenchmarkBaselineForReverseSliceLength100
BenchmarkBaselineForLoopIteration10000 10000
                                                         106006 ns/op
BenchmarkBaselineForReverseLoopIteration10000
                                                50000
                                                                 67480 ns/op
BenchmarkBaselineForRange10000 10000
                                                153841 ns/op
BenchmarkBaselineForSliceLength10000
                                        20000
                                                         85735 ns/op
BenchmarkBaselineForReverseSliceLength10000
                                                50000
                                                                69461 ns/op
                                                                10162 ns/op
BenchmarkBaselineMakeChannelBoolUnbuffered
                                               200000
                                                         12517 ns/op
                                      200000
BenchmarkBaselineMakeChannelBool1
BenchmarkBaselineMakeChannelBool10
                                       200000
                                                         12521 ns/op
                                                            10369 ns/op
BenchmarkBaselineMakeChannelStringUnbuffered
                                               500000
                                       200000
BenchmarkBaselineMakeChannelString1
                                                         12576 ns/op
                                        100000
BenchmarkBaselineMakeChannelString10
                                                          22358 ns/op
BenchmarkBaselineGo
                                        367593 ns/op
                        50000
BenchmarkBaselineFunctionCall 50000000
                                                    57.0 ns/op
BenchmarkBaselineFunctionCallArg 20000000
                                                            81.0 ns/op
BenchmarkBaselineFunctionCall5VarArgs
                                       500000
                                                           6852 ns/op
                                      50000000
                                                            60.3 ns/op
BenchmarkBaselineFunctionCallInt
BenchmarkBaselineFunctionCall5VarInts
                                      1000000
                                                          3185 ns/op
BenchmarkBaselineFunctionCallWithDefer 1000000
                                                          2330 ns/op
BenchmarkBaselineFunctionCallPanicRecover
                                                                 6222 ns/op
                                              500000
                                    20000000
BenchmarkBaselineMethodCallDirect
                                                            83.8 ns/op
BenchmarkBaselineMethodCallDirect1Arg
                                     20000000
                                                           106 ns/op
BenchmarkBaselineMethodCallDirect1Int 20000000
                                                           85.2 ns/op
BenchmarkBaselineMethodCallDirect5Args 5000000
                                                           368 ns/op
BenchmarkBaselineMethodCallDirect5Ints 10000000
                                                           233 ns/op
                                                            18.0 ns/op
BenchmarkBaselineMethodCallIndirect
                                     100000000
BenchmarkBaselineMethodCallIndirect1Arg 50000000
                                                            42.0 ns/op
BenchmarkBaselineMethodCallIndirect1Int 100000000
                                                            19.5 ns/op
BenchmarkBaselineMethodCallIndirect5Args
                                              5000000
                                                                   309 ns/op
BenchmarkBaselineMethodCallIndirect5Ints
                                             10000000
                                                                   168 ns/op
                                                   218 ns/op
BenchmarkBaselineTypeAssertion 10000000
BenchmarkBaselineTypeAssertionEmptyInterface
                                             20000000
                                                                   106 ns/op
BenchmarkBaselineTypeAssertionInterface1
                                              5000000
                                                                   576 ns/op
BenchmarkBaselineTypeAssertionInterface2
                                              5000000
                                                                   579 ns/op
BenchmarkBaselineTypeReflectPrimitiveToValue
                                              5000000
                                                                   425 ns/op
                                                                  3218 ns/op
BenchmarkBaselineTypeReflectSliceToValue
BenchmarkBaselineTypeReflectStructToValue
                                               500000
                                                                  4760 ns/op
BenchmarkBaselineTypeCheck 10000000
                                                 189 ns/op
                                             20000000
BenchmarkBaselineTypeCheckEmptyInterface
                                                                   93.1 ns/op
                                      5000000
                                                           511 ns/op
BenchmarkBaselineTypeCheckInterface1
                                       5000000
BenchmarkBaselineTypeCheckInterface2
                                                           516 ns/op
BenchmarkBaselineTypeSwitchOneCase
                                      10000000
                                                           262 ns/op
                                                                  295 ns/op
BenchmarkBaselineTypeSwitchBasicTypesCase
                                             10000000
{\tt BenchmarkBaselineTypeSwitchEmptyInterface}
                                             10000000
                                                                  163 ns/op
                                                            588 ns/op
BenchmarkBaselineTypeSwitchInterface1
                                       5000000
BenchmarkBaselineTypeSwitchInterface2
                                       5000000
                                                            602 ns/op
BenchmarkBaselineNewStructureLiteral 20000000
                                                            84.0 ns/op
```

```
BenchmarkBaselineNewStructure 20000000 127 ns/op
                                                      54.2 ns/op
BenchmarkBaselineNewSliceLiteral 50000000
BenchmarkBaselineNewSlice 1000000
                                               3124 ns/op
                                                    9083 ns/op
BenchmarkBaselineNewMapLiteralIntToInt 500000
BenchmarkBaselineNewMapLiteralIntToInterface 500000
                                                         9807 ns/op
BenchmarkBaselineNewMapLiteralStringToInt
                                           500000
                                                             9792 ns/op
BenchmarkBaselineNewMapLiteralStringToInterface 500000
                                                            10595 ns/op
BenchmarkBaselineNewMapLiteralIntToInt2Item
                                                           14265 ns/op
BenchmarkBaselineNewMapLiteralIntToInterface2Item
                                                  200000
                                                                   14669 ns/op
BenchmarkBaselineNewMapLiteralStringToInt2Item 200000
                                                           14025 ns/op
BenchmarkBaselineNewMapLiteralStringToInterface2Item
                                                                   15086 ns/op
BenchmarkBaselineNewMapIntToInt 500000
                                              9025 ns/op
                                                      9753 ns/op
BenchmarkBaselineNewMapIntToInterface 500000
BenchmarkBaselineNewMapStringToInt
                                    500000
                                                     9740 ns/op
                                           500000
                                                            10486 ns/op
BenchmarkBaselineNewMapStringToInterface
                                             300 ns/op
BenchmarkBaselineSliceCopy 5000000
                                                    3318 ns/op
BenchmarkBaselineNewSliceAppendElement1 1000000
                                                            5174 ns/op
BenchmarkBaselineNewSliceAppendElement10 1000000
ok github.com/feyeleanor/gospeed 417.296s
```

Raspberry Pi 2

• Building Go 1.5 on the Raspberry Pi - Dave Cheney

```
go version devel +07f9c25 Wed Dec 9 21:25:05 2015 +0000 linux/arm
$ go test -timeout 20m -v -bench=Benchmark -run=X
PASS
BenchmarkAppend-4
                                       3000000
                                                        402 ns/op
                                         50
                                                  27296836 ns/op
BenchmarkAppendGrowByte-4
                                                 1277592542 ns/op
BenchmarkAppendGrowString-4
                                            1
                                                   75.6 ns/op
BenchmarkAppend1Byte-4
                                      20000000
BenchmarkAppend4Bytes-4
                                      20000000
                                                         88.2 ns/op
BenchmarkAppend7Bytes-4
                                      20000000
                                                        103 ns/op
                                                         89.1 ns/op
BenchmarkAppend8Bytes-4
                                      20000000
                                                       109 ns/op
BenchmarkAppend15Bytes-4
                                      20000000
                                                         94.5 ns/op
BenchmarkAppend16Bytes-4
                                      20000000
BenchmarkAppend32Bytes-4
                                      20000000
                                                          91.4 ns/op
                                                         73.9 ns/op
BenchmarkAppendStr1Byte-4
                                      20000000
BenchmarkAppendStr4Bytes-4
                                      20000000
                                                         84.7 ns/op
BenchmarkAppendStr8Bytes-4
                                      20000000
                                                         88.7 ns/op
BenchmarkAppendStr16Bytes-4
                                      20000000
                                                         94.5 ns/op
BenchmarkAppendStr32Bytes-4
                                      20000000
                                                         91.3 ns/op
BenchmarkAppendSpecialCase-4
                                       2000000
                                                         675 ns/op
                                      20000000
                                                        109 ns/op
                                                                        9.13 MB/s
BenchmarkCopy1Byte-4
BenchmarkCopy2Byte-4
                                      20000000
                                                         112 ns/op
                                                                       17.77 MB/s
BenchmarkCopy4Byte-4
                                      10000000
                                                        120 ns/op
                                                                       33.26 MB/s
BenchmarkCopy8Byte-4
                                      10000000
                                                         122 ns/op
                                                                       65.32 MB/s
BenchmarkCopy12Byte-4
                                      10000000
                                                        126 ns/op
                                                                       94.82 MB/s
BenchmarkCopy16Byte-4
                                      10000000
                                                         129 ns/op
                                                                      123.60 MB/s
BenchmarkCopy32Byte=4
                                      10000000
                                                        126 ns/op
                                                                      252.60 MB/s
                                                        162 ns/op
BenchmarkCopy128Byte-4
                                      10000000
                                                                      786.76 MB/s
BenchmarkCopy1024Byte-4
                                       3000000
                                                         479 ns/op
                                                                     2134.17 MB/s
BenchmarkCopy1String-4
                                      20000000
                                                         100 ns/op
                                                                       9.98 MB/s
BenchmarkCopy2String-4
                                      20000000
                                                         104 ns/op
                                                                       19.19 MB/s
                                                                      35.86 MB/s
BenchmarkCopy4String-4
                                      20000000
                                                        111 ns/op
BenchmarkCopy8String-4
                                      20000000
                                                         114 ns/op
                                                                       70.02 MB/s
BenchmarkCopy12String-4
                                      20000000
                                                        116 ns/op
                                                                     103.17 MB/s
BenchmarkCopy16String-4
                                      10000000
                                                         120 ns/op
                                                                      132.69 MB/s
                                      20000000
                                                        116 ns/op
                                                                      273.77 MB/s
BenchmarkCopy32String-4
BenchmarkCopy128String-4
                                      10000000
                                                         150 ns/op
                                                                      851.31 MB/s
                                       3000000
                                                        472 ns/op
                                                                     2167.03 MB/s
BenchmarkCopy1024String-4
BenchmarkChanNonblocking-4
                                      20000000
                                                         77.7 ns/op
                                                         780 ns/op
BenchmarkSelectUncontended-4
                                      2000000
                                                       15094 ns/op
BenchmarkSelectSyncContended-4
                                        100000
                                                       2569 ns/op
BenchmarkSelectAsyncContended-4
                                        500000
BenchmarkSelectNonblock-4
                                      10000000
                                                        226 ns/op
                                      50000
                                                      26993 ns/op
BenchmarkChanUncontended-4
                                                     111382 ns/op
BenchmarkChanContended-4
                                        10000
                                                       3994 ns/op
BenchmarkChanSync-4
                                        300000
                                                        3100 ns/op
BenchmarkChanProdCons0-4
                                        500000
                                                        2099 ns/op
BenchmarkChanProdCons10-4
                                       1000000
BenchmarkChanProdCons100-4
                                       1000000
                                                        1342 ns/op
BenchmarkChanProdConsWork0-4
                                        500000
                                                        3071 ns/op
BenchmarkChanProdConsWork10-4
                                        500000
                                                        2332 ns/op
```

⁻⁻ anthony starks

BenchmarkChanProdConsWork100-4	1000000	1382	ns/op	
BenchmarkSelectProdCons-4	300000		ns/op	
BenchmarkChanCreation-4	2000000	629	ns/op	
BenchmarkChanSem-4	1000000		ns/op	
BenchmarkChanPopular-4	200	7597153		
BenchmarkCallClosure-4	30000000		.5 ns/op	
BenchmarkCallClosure1-4	30000000		.0 ns/op	
BenchmarkCallClosure2-4 BenchmarkCallClosure3-4	5000000 5000000		ns/op ns/op	
BenchmarkCallClosure4-4	5000000		ns/op	
BenchmarkComplex128DivNormal-4	3000000		ns/op	
BenchmarkComplex128DivNisNaN-4	5000000		ns/op	
BenchmarkComplex128DivDisNaN-4	5000000		ns/op	
BenchmarkComplex128DivNisInf-4	5000000	289	ns/op	
BenchmarkComplex128DivDisInf-4	5000000	273	ns/op	
BenchmarkSetTypePtr-4	2000000	85	.1 ns/op	46.98 MB/s
BenchmarkSetTypePtr8-4	10000000	169	ns/op	189.14 MB/s
BenchmarkSetTypePtr16-4	10000000		ns/op	299.83 MB/s
BenchmarkSetTypePtr32-4	5000000		ns/op	429.62 MB/s
BenchmarkSetTypePtr64-4	3000000		ns/op	553.72 MB/s
BenchmarkSetTypePtr126-4	2000000		ns/op	636.59 MB/s
BenchmarkSetTypePtr128-4 BenchmarkSetTypePtrSlice-4	2000000		ns/op ns/op	658.60 MB/s 659.75 MB/s
BenchmarkSetTypeNode1-4	1000000		ns/op ns/op	74.86 MB/s
BenchmarkSetTypeNode1Slice-4	1000000		ns/op	356.60 MB/s
BenchmarkSetTypeNode8-4	1000000		ns/op	180.94 MB/s
BenchmarkSetTypeNode8Slice-4	1000000		ns/op	542.53 MB/s
BenchmarkSetTypeNode64-4	3000000		ns/op	521.63 MB/s
BenchmarkSetTypeNode64Slice-4	100000		ns/op	650.22 MB/s
BenchmarkSetTypeNode64Dead-4	5000000		ns/op	856.90 MB/s
BenchmarkSetTypeNode64DeadSlice-4	200000		ns/op	734.21 MB/s
BenchmarkSetTypeNode124-4	2000000	799	ns/op	630.27 MB/s
BenchmarkSetTypeNode124Slice-4	100000	23306	ns/op	692.00 MB/s
BenchmarkSetTypeNode126-4	2000000	776	ns/op	659.33 MB/s
BenchmarkSetTypeNode126Slice-4	100000	21520	ns/op	761.31 MB/s
BenchmarkSetTypeNode128-4	2000000		ns/op	611.35 MB/s
BenchmarkSetTypeNode128Slice-4	50000		ns/op	689.81 MB/s
BenchmarkSetTypeNode130-4	2000000		ns/op	638.06 MB/s
BenchmarkSetTypeNode130Slice-4	50000		ns/op	694.67 MB/s
BenchmarkSetTypeNode1024-4	300000		ns/op	725.66 MB/s
BenchmarkSetTypeNode1024Slice-4	10000	183602	-	715.28 MB/s
Paradon and 211 and 4				
BenchmarkAllocation-4	10000	166825	-	23 02 10 1
BenchmarkHash5-4	10000000	217	ns/op	23.02 MB/s
BenchmarkHash5-4 BenchmarkHash16-4	10000000 5000000	217 289	ns/op ns/op	55.18 MB/s
BenchmarkHash5-4 BenchmarkHash16-4 BenchmarkHash64-4	10000000 5000000 2000000	217 289 770	ns/op ns/op ns/op	55.18 MB/s 83.10 MB/s
BenchmarkHash5-4 BenchmarkHash16-4 BenchmarkHash64-4 BenchmarkHash1024-4	10000000 5000000 2000000 200000	217 289 770 9442	ns/op ns/op ns/op ns/op	55.18 MB/s 83.10 MB/s 108.44 MB/s
BenchmarkHash5-4 BenchmarkHash16-4 BenchmarkHash64-4 BenchmarkHash1024-4 BenchmarkHash5536-4	10000000 5000000 2000000 200000 2000	217 289 770 9442 600452	ns/op ns/op ns/op ns/op ns/op	55.18 MB/s 83.10 MB/s
BenchmarkHash5-4 BenchmarkHash16-4 BenchmarkHash64-4 BenchmarkHash1024-4 BenchmarkHash65536-4 BenchmarkEqEfaceConcrete-4	10000000 5000000 2000000 200000 2000 200	217 289 770 9442 600452	ns/op ns/op ns/op ns/op ns/op	55.18 MB/s 83.10 MB/s 108.44 MB/s
BenchmarkHash5-4 BenchmarkHash16-4 BenchmarkHash64-4 BenchmarkHash1024-4 BenchmarkHash5536-4	1000000 500000 200000 200000 2000 2000 2	217 289 770 9442 600452 79	ns/op ns/op ns/op ns/op ns/op .1 ns/op .0 ns/op	55.18 MB/s 83.10 MB/s 108.44 MB/s
BenchmarkHash5-4 BenchmarkHash16-4 BenchmarkHash64-4 BenchmarkHash1024-4 BenchmarkHash65536-4 BenchmarkEqEfaceConcrete-4 BenchmarkEqIfaceConcrete-4	10000000 5000000 2000000 200000 2000 200	217 289 770 9442 600452 79 77 80	ns/op ns/op ns/op ns/op ns/op .1 ns/op .0 ns/op	55.18 MB/s 83.10 MB/s 108.44 MB/s
BenchmarkHash16-4 BenchmarkHash16-4 BenchmarkHash64-4 BenchmarkHash1024-4 BenchmarkHash65536-4 BenchmarkEqEfaceConcrete-4 BenchmarkEqIfaceConcrete-4 BenchmarkNeEfaceConcrete-4	10000000 5000000 2000000 200000 2000 200	217 289 770 9442 600452 79 77	ns/op ns/op ns/op ns/op ns/op .1 ns/op .0 ns/op	55.18 MB/s 83.10 MB/s 108.44 MB/s
BenchmarkHash16-4 BenchmarkHash16-4 BenchmarkHash64-4 BenchmarkHash1024-4 BenchmarkHash65536-4 BenchmarkEqEfaceConcrete-4 BenchmarkEqIfaceConcrete-4 BenchmarkNeIfaceConcrete-4 BenchmarkNeIfaceConcrete-4	10000000 5000000 2000000 200000 20000000 20000000 20000000 20000000 20000000	217 289 770 9442 600452 79 77 80 77	ns/op ns/op ns/op ns/op ns/op .1 ns/op .0 ns/op .0 ns/op	55.18 MB/s 83.10 MB/s 108.44 MB/s
BenchmarkHash16-4 BenchmarkHash16-4 BenchmarkHash64-4 BenchmarkHash1024-4 BenchmarkHash65536-4 BenchmarkEqEfaceConcrete-4 BenchmarkEqIfaceConcrete-4 BenchmarkNeIfaceConcrete-4 BenchmarkNeIfaceConcrete-4 BenchmarkNeIfaceConcrete-4	10000000 5000000 2000000 200000 20000000 20000000 20000000 20000000 20000000 5000000	217 289 770 9442 600452 79 77 80 77 362 394	ns/op ns/op ns/op ns/op ns/op 1 ns/op 0 ns/op 0 ns/op .7 ns/op ns/op	55.18 MB/s 83.10 MB/s 108.44 MB/s
BenchmarkHash5-4 BenchmarkHash16-4 BenchmarkHash64-4 BenchmarkHash1024-4 BenchmarkHash65536-4 BenchmarkEqEfaceConcrete-4 BenchmarkEqIfaceConcrete-4 BenchmarkNeIfaceConcrete-4 BenchmarkNeIfaceConcrete-4 BenchmarkConvT2ESmall-4 BenchmarkConvT2EUntptr-4	10000000 5000000 2000000 200000 2000000 20000000 2000000	217 289 770 9442 600452 79 77 80 77 362 394	ns/op ns/op ns/op ns/op ns/op 1 ns/op 0 ns/op 0 ns/op .7 ns/op ns/op	55.18 MB/s 83.10 MB/s 108.44 MB/s
BenchmarkHash5-4 BenchmarkHash16-4 BenchmarkHash64-4 BenchmarkHash6536-4 BenchmarkEqEfaceConcrete-4 BenchmarkEqIfaceConcrete-4 BenchmarkNeEfaceConcrete-4 BenchmarkNeIfaceConcrete-4 BenchmarkConvT2ESmall-4 BenchmarkConvT2EUintptr-4 BenchmarkConvT2ELarge-4	10000000 5000000 2000000 200000 2000000 20000000 2000000	217 289 770 9442 600452 79 77 80 77 362 394 457	ns/op ns/op ns/op ns/op ns/op ns/op .1 ns/op .0 ns/op .7 ns/op ns/op ns/op	55.18 MB/s 83.10 MB/s 108.44 MB/s
BenchmarkHash16-4 BenchmarkHash16-4 BenchmarkHash1024-4 BenchmarkHash1024-4 BenchmarkHash65536-4 BenchmarkEqEfaceConcrete-4 BenchmarkEqIfaceConcrete-4 BenchmarkNeIfaceConcrete-4 BenchmarkConvT2ESmall-4 BenchmarkConvT2ESmall-4 BenchmarkConvT2EUintptr-4 BenchmarkConvT2ELarge-4 BenchmarkConvT2ELarge-4	10000000 5000000 2000000 2000000 2000000 20000000 20000000 20000000 5000000 3000000 3000000	217 289 770 9442 600452 79 77 80 77 362 394 457 482 524	ns/op ns/op ns/op ns/op ns/op ns/op ns/op 1 ns/op 0 ns/op 7 ns/op ns/op ns/op ns/op ns/op	55.18 MB/s 83.10 MB/s 108.44 MB/s
BenchmarkHash16-4 BenchmarkHash16-4 BenchmarkHash164-4 BenchmarkHash1024-4 BenchmarkHash65536-4 BenchmarkEqEfaceConcrete-4 BenchmarkEqIfaceConcrete-4 BenchmarkNeEfaceConcrete-4 BenchmarkConvT2ESmall-4 BenchmarkConvT2EUintptr-4 BenchmarkConvT2EUintptr-4 BenchmarkConvT2ISmall-4 BenchmarkConvT2ISmall-4 BenchmarkConvT2ISmall-4	10000000 5000000 2000000 2000000 20000000 20000000	217 289 770 9442 600452 79 77 80 77 362 394 457 482 524	ns/op ns/op ns/op ns/op ns/op ns/op ns/op 1 ns/op 0 ns/op ns/op ns/op ns/op ns/op ns/op ns/op ns/op	55.18 MB/s 83.10 MB/s 108.44 MB/s
BenchmarkHash16-4 BenchmarkHash16-4 BenchmarkHash1024-4 BenchmarkHash1024-4 BenchmarkHash65536-4 BenchmarkEqEfaceConcrete-4 BenchmarkEqIfaceConcrete-4 BenchmarkNeEfaceConcrete-4 BenchmarkConvTZESmall-4 BenchmarkConvTZESmall-4 BenchmarkConvTZELarge-4 BenchmarkConvTZELarge-4 BenchmarkConvTZISmall-4	10000000 5000000 2000000 2000000 20000000 20000000	217 289 770 9442 600452 79 77 80 77 362 394 457 482 524 600	ns/op ns/op ns/op ns/op ns/op ns/op ns/op 0 ns/op 0 ns/op ns/op ns/op ns/op ns/op ns/op	55.18 MB/s 83.10 MB/s 108.44 MB/s
BenchmarkHash16-4 BenchmarkHash16-4 BenchmarkHash1024-4 BenchmarkHash1024-4 BenchmarkHash65536-4 BenchmarkEqEfaceConcrete-4 BenchmarkEqIfaceConcrete-4 BenchmarkNeIfaceConcrete-4 BenchmarkConvT2ESmall-4 BenchmarkConvT2EUintptr-4 BenchmarkConvT2ELarge-4 BenchmarkConvT2ISmall-4 BenchmarkConvT2IUintptr-4 BenchmarkConvT2IUintptr-4 BenchmarkConvT2IUintptr-4 BenchmarkConvT2IUintptr-4 BenchmarkConvT2IUintptr-4 BenchmarkConvT2ILarge-4 BenchmarkConvT2ILarge-4	10000000 5000000 2000000 2000000 20000000 20000000	217 289 770 9442 600452 79 77 80 77 362 394 457 482 524 600 60	ns/op ns/op ns/op ns/op ns/op ns/op 0 ns/op 0 ns/op 7 ns/op ns/op ns/op ns/op ns/op ns/op ns/op	55.18 MB/s 83.10 MB/s 108.44 MB/s
BenchmarkHash5-4 BenchmarkHash16-4 BenchmarkHash64-4 BenchmarkHash6536-4 BenchmarkHash65536-4 BenchmarkEqEfaceConcrete-4 BenchmarkEqIfaceConcrete-4 BenchmarkNeIfaceConcrete-4 BenchmarkNor1ZESmall-4 BenchmarkConvT2EUintptr-4 BenchmarkConvT2ELarge-4 BenchmarkConvT2IUintptr-4 BenchmarkConvT2IUintptr-4 BenchmarkConvT2IUintptr-4 BenchmarkConvT2IUintptr-4 BenchmarkConvT2IUintptr-4 BenchmarkConvT2ILarge-4 BenchmarkConvT2ILarge-4 BenchmarkConvT2ILarge-4 BenchmarkConvT2ILarge-4 BenchmarkConvT2ILarge-4	10000000 5000000 2000000 2000000 20000000 20000000	217 289 770 9442 600452 79 77 80 77 362 394 457 482 524 600 60 302 121	ns/op ns/op ns/op ns/op ns/op ns/op ns/op 0 ns/op 0 ns/op 7 ns/op	55.18 MB/s 83.10 MB/s 108.44 MB/s
BenchmarkHash16-4 BenchmarkHash16-4 BenchmarkHash1024-4 BenchmarkHash1024-4 BenchmarkHash65536-4 BenchmarkEqEfaceConcrete-4 BenchmarkEqIfaceConcrete-4 BenchmarkNeEfaceConcrete-4 BenchmarkConvT2ESmall-4 BenchmarkConvT2EUintptr-4 BenchmarkConvT2EUintptr-4 BenchmarkConvT2ISmall-4 BenchmarkConvT2ILarge-4 BenchmarkConvT2ILarge-4 BenchmarkConvT2ILarge-4 BenchmarkConvI2I-4 BenchmarkConvI2I-4 BenchmarkConvI2I-4 BenchmarkConvI2I-4 BenchmarkConvI2I-4 BenchmarkConvI2I-4 BenchmarkAssertE2T-4 BenchmarkAssertE2T-4 BenchmarkAssertE2T-4 BenchmarkAssertE2I-4	10000000 5000000 2000000 2000000 20000000 20000000	217 289 770 9442 600452 79 77 80 77 362 394 457 482 524 600 60 302 121 131 329	ns/op ns/op ns/op ns/op ns/op ns/op ns/op ns/op 0 ns/op 7 ns/op	55.18 MB/s 83.10 MB/s 108.44 MB/s
BenchmarkHash16-4 BenchmarkHash16-4 BenchmarkHash64-4 BenchmarkHash65536-4 BenchmarkEgEfaceConcrete-4 BenchmarkEgIfaceConcrete-4 BenchmarkEgIfaceConcrete-4 BenchmarkConvT2ESmall-4 BenchmarkConvT2ESmall-4 BenchmarkConvT2EUintptr-4 BenchmarkConvT2EUintptr-4 BenchmarkConvT2IIntptr-4 BenchmarkConvT2IUintptr-4 BenchmarkConvT2IUintptr-4 BenchmarkConvT2IUintptr-4 BenchmarkConvT2IUintptr-4 BenchmarkConvT2IUintptr-4 BenchmarkConvT2ILarge-4 BenchmarkConvI2F-4 BenchmarkConvI2I-4 BenchmarkAssertE2T-4 BenchmarkAssertE2TLarge-4 BenchmarkAssertE2I-4 BenchmarkAssertE2I-4 BenchmarkAssertE2I-4	10000000 5000000 2000000 2000000 20000000 20000000	217 289 770 9442 600452 79 77 80 77 362 394 457 482 524 600 60 302 121 131 329 125	ns/op ns/op ns/op ns/op ns/op ns/op ns/op 0 ns/op 0 ns/op 7 ns/op	55.18 MB/s 83.10 MB/s 108.44 MB/s
BenchmarkHash5-4 BenchmarkHash16-4 BenchmarkHash64-4 BenchmarkHash65536-4 BenchmarkBash65536-4 BenchmarkEqEfaceConcrete-4 BenchmarkEqIfaceConcrete-4 BenchmarkConvT2ESmall-4 BenchmarkConvT2ESmall-4 BenchmarkConvT2EUintptr-4 BenchmarkConvT2EIJuintptr-4 BenchmarkConvT2IJuintptr-4 BenchmarkConvT2IJuintptr-4 BenchmarkConvT2IJuintptr-4 BenchmarkConvT2ILarge-4 BenchmarkConvT2ILarge-4 BenchmarkConvI2I-4 BenchmarkConvI2I-4 BenchmarkConvI2I-4 BenchmarkAssertE2T-4 BenchmarkAssertE2T-4 BenchmarkAssertE2T-4 BenchmarkAssertI2I-4 BenchmarkAssertI2I-4 BenchmarkAssertI2I-4 BenchmarkAssertI2I-4	10000000 5000000 2000000 2000000 20000000 20000000	217 289 770 9442 600452 79 77 80 77 362 394 457 482 524 600 60 302 121 131 329 125 328	ns/op ns/op ns/op ns/op ns/op ns/op ns/op 0 ns/op 0 ns/op	55.18 MB/s 83.10 MB/s 108.44 MB/s
BenchmarkHash5-4 BenchmarkHash64-4 BenchmarkHash64-4 BenchmarkHash65536-4 BenchmarkEqEfaceConcrete-4 BenchmarkEqIfaceConcrete-4 BenchmarkEqIfaceConcrete-4 BenchmarkConvT2ESmall-4 BenchmarkConvT2ESmall-4 BenchmarkConvT2ELarge-4 BenchmarkConvT2ELarge-4 BenchmarkConvT2IImitptr-4 BenchmarkConvT2IImitptr-4 BenchmarkConvT2IImitptr-4 BenchmarkConvT2IIIarge-4 BenchmarkConvT2ILarge-4 BenchmarkConvI2I-4 BenchmarkConvI2I-4 BenchmarkAssertE2T-4 BenchmarkAssertE2T-4 BenchmarkAssertE2I-4 BenchmarkAssertI2T-4 BenchmarkAssertI2T-4 BenchmarkAssertI2I-4 BenchmarkAssertI2I-4 BenchmarkAssertI2I-4 BenchmarkAssertI2I-4 BenchmarkAssertI2I-4 BenchmarkAssertI2I-4	10000000 5000000 2000000 2000000 20000000 20000000	217 289 770 9442 600452 79 77 80 77 362 394 457 482 524 600 60 302 121 131 329 125 328 84	ns/op ns/op ns/op ns/op ns/op ns/op ns/op 0 ns/op	55.18 MB/s 83.10 MB/s 108.44 MB/s
BenchmarkHash16-4 BenchmarkHash16-4 BenchmarkHash1024-4 BenchmarkHash1024-4 BenchmarkEdEfaceConcrete-4 BenchmarkEdEfaceConcrete-4 BenchmarkNeEfaceConcrete-4 BenchmarkConvT2ESmall-4 BenchmarkConvT2ESmall-4 BenchmarkConvT2EUintptr-4 BenchmarkConvT2ISmall-4 BenchmarkConvT2IIIntptr-4 BenchmarkConvT2IIIntptr-4 BenchmarkConvT2IIIntptr-4 BenchmarkConvT2IIIntptr-4 BenchmarkConvT2IIIntptr-4 BenchmarkConvT2IIIntptr-4 BenchmarkConvT2IIIntptr-4 BenchmarkConvIZI-4 BenchmarkConvIZI-4 BenchmarkAssertEZT-4 BenchmarkAssertEZT-4 BenchmarkAssertIZI-4	10000000 5000000 2000000 2000000 20000000 20000000	217 289 770 9442 600452 79 77 80 77 362 394 457 482 524 600 60 302 121 131 329 125 328 84 32	ns/op ns/op ns/op ns/op ns/op ns/op 1 ns/op 0 ns/op 0 ns/op	55.18 MB/s 83.10 MB/s 108.44 MB/s
BenchmarkHash5-4 BenchmarkHash16-4 BenchmarkHash64-4 BenchmarkHash65536-4 BenchmarkEdEfaceConcrete-4 BenchmarkEdEfaceConcrete-4 BenchmarkNeIfaceConcrete-4 BenchmarkNeIfaceConcrete-4 BenchmarkConvT2ESmall-4 BenchmarkConvT2EUintptr-4 BenchmarkConvT2IUintptr-4 BenchmarkConvT2IUintptr-4 BenchmarkConvT2ILarge-4 BenchmarkConvT2ILarge-4 BenchmarkConvT2ILarge-4 BenchmarkConvT2ILarge-4 BenchmarkConvT2ILarge-4 BenchmarkConvT2IL-4 BenchmarkConvT2IL-4 BenchmarkConvT2IL-4 BenchmarkAssertE2T-4 BenchmarkAssertE2T-4 BenchmarkAssertI2I-4 BenchmarkAssertI2I-4 BenchmarkAssertI2I-4 BenchmarkAssertI2E-4 BenchmarkAssertI2E-4 BenchmarkAssertI2E-4 BenchmarkAssertE2E-4 BenchmarkAssertE2E-4 BenchmarkAssertE2E-4 BenchmarkAssertE2E-4	10000000 5000000 2000000 2000000 20000000 20000000	217 289 770 9442 600452 79 77 80 77 362 394 457 482 524 600 60 302 121 131 329 125 328 84 32	ns/op ns/op ns/op ns/op ns/op ns/op ns/op 0 ns/op 0 ns/op 7 ns/op	55.18 MB/s 83.10 MB/s 108.44 MB/s
BenchmarkHash5-4 BenchmarkHash64-4 BenchmarkHash64-4 BenchmarkHash65536-4 BenchmarkEqEfaceConcrete-4 BenchmarkEqIfaceConcrete-4 BenchmarkNeIfaceConcrete-4 BenchmarkConvT2ESmall-4 BenchmarkConvT2EUintptr-4 BenchmarkConvT2EUintptr-4 BenchmarkConvT2IUintptr-4 BenchmarkConvT2IUintptr-4 BenchmarkConvT2ILarge-4 BenchmarkConvT2ILarge-4 BenchmarkConvT2ILarge-4 BenchmarkConvT2ILarge-4 BenchmarkConvT2ILarge-4 BenchmarkConvT2IL-4 BenchmarkConvT2IL-4 BenchmarkConvT2IL-4 BenchmarkAssertE2T-4 BenchmarkAssertE2T-4 BenchmarkAssertE2T-4 BenchmarkAssertI2E-4 BenchmarkAssertI2E-4 BenchmarkAssertI2E-4 BenchmarkAssertI2E-4 BenchmarkAssertE2E-4	10000000 5000000 2000000 2000000 20000000 20000000	217 289 770 9442 600452 79 77 80 77 362 394 457 482 524 600 60 302 121 131 329 125 328 84 32 129 18	ns/op ns/op ns/op ns/op ns/op ns/op ns/op ns/op 0 ns/op 7 ns/op	55.18 MB/s 83.10 MB/s 108.44 MB/s
BenchmarkHash5-4 BenchmarkHash64-4 BenchmarkHash64-4 BenchmarkHash65536-4 BenchmarkEqEfaceConcrete-4 BenchmarkEqEfaceConcrete-4 BenchmarkEqIfaceConcrete-4 BenchmarkNeEfaceConcrete-4 BenchmarkConvT2ESmall-4 BenchmarkConvT2EUintptr-4 BenchmarkConvT2EUintptr-4 BenchmarkConvT2IIntptr-4 BenchmarkConvT2IUintptr-4 BenchmarkConvT2IUintptr-4 BenchmarkConvT2ILarge-4 BenchmarkConvT2ILarge-4 BenchmarkConvI2I-4 BenchmarkConvI2I-4 BenchmarkAssertE2T-4 BenchmarkAssertE2T-4 BenchmarkAssertE2T-4 BenchmarkAssertI2I-4 BenchmarkAssertI2E-4 BenchmarkAssertE2E-4 BenchmarkAssertE2T-4	10000000 5000000 2000000 2000000 20000000 20000000	217 289 770 9442 600452 79 77 80 77 362 394 457 482 524 600 60 302 121 131 329 125 328 84 32 129 125 125 126 127 127 128 129 129 120 120 121 131 132 125 126 127 127 128 129 129 120 120 120 120 120 120 120 120	ns/op ns/op ns/op ns/op ns/op ns/op ns/op ns/op 0 ns/op 0 ns/op	55.18 MB/s 83.10 MB/s 108.44 MB/s
BenchmarkHash16-4 BenchmarkHash16-4 BenchmarkHash64-4 BenchmarkHash61024-4 BenchmarkHash65536-4 BenchmarkEqEfaceConcrete-4 BenchmarkEqIfaceConcrete-4 BenchmarkEqIfaceConcrete-4 BenchmarkConvT2ESmall-4 BenchmarkConvT2ESmall-4 BenchmarkConvT2EUintptr-4 BenchmarkConvT2IIntptr-4 BenchmarkConvT2IIntptr-4 BenchmarkConvT2IIIntptr-4 BenchmarkConvT2IIIntptr-4 BenchmarkConvT2IIIntptr-4 BenchmarkConvI2I-4 BenchmarkConvI2I-4 BenchmarkConvI2I-4 BenchmarkSertE2T-4 BenchmarkAssertE2T-4 BenchmarkAssertE2T-4 BenchmarkAssertI2I-4 BenchmarkAssertI2E-4 BenchmarkAssertI2E-4 BenchmarkAssertI2E-4 BenchmarkAssertE2T-4 BenchmarkAssertI2E-4 BenchmarkAssertI2E2-4 BenchmarkAssertI2E2-4 BenchmarkAssertI2E2-4	10000000 5000000 2000000 2000000 20000000 20000000	217 289 770 9442 600452 79 77 80 77 362 394 457 482 524 600 60 302 121 131 329 125 328 84 32 129 18 19 18 19 10 10 10 10 10 10 10 10 10 10	ns/op ns/op ns/op ns/op ns/op ns/op ns/op ns/op 0 ns/op 0 ns/op	55.18 MB/s 83.10 MB/s 108.44 MB/s
BenchmarkHash16-4 BenchmarkHash16-4 BenchmarkHash164-4 BenchmarkHash1024-4 BenchmarkHash1024-4 BenchmarkEqEfaceConcrete-4 BenchmarkEqEfaceConcrete-4 BenchmarkNeEfaceConcrete-4 BenchmarkNeIfaceConcrete-4 BenchmarkConvT2ESmall-4 BenchmarkConvT2ESmall-4 BenchmarkConvT2EUintptr-4 BenchmarkConvT2IUintptr-4 BenchmarkConvT2IUintptr-4 BenchmarkConvT2IUintptr-4 BenchmarkConvT2ILarge-4 BenchmarkConvT2ILarge-4 BenchmarkConvT2ILarge-4 BenchmarkConvI2I-4 BenchmarkAssertE2T-4 BenchmarkAssertE2T-4 BenchmarkAssertE2T-4 BenchmarkAssertI2I-4 BenchmarkAssertE2T-4 BenchmarkAssertE2E-1 BenchmarkAssertE2E-1	10000000 5000000 2000000 2000000 20000000 20000000	217 289 770 9442 600452 600452 79 77 80 77 362 394 457 482 524 600 60 302 121 131 329 125 328 84 32 129 18 18 19 10 10 10 10 10 10 10 10 10 10	ns/op ns/op ns/op ns/op ns/op ns/op ns/op 0 ns/op 0 ns/op 0 ns/op	55.18 MB/s 83.10 MB/s 108.44 MB/s
BenchmarkHash16-4 BenchmarkHash16-4 BenchmarkHash64-4 BenchmarkHash61024-4 BenchmarkHash65536-4 BenchmarkEqEfaceConcrete-4 BenchmarkEqIfaceConcrete-4 BenchmarkEqIfaceConcrete-4 BenchmarkConvT2ESmall-4 BenchmarkConvT2ESmall-4 BenchmarkConvT2EUintptr-4 BenchmarkConvT2IIntptr-4 BenchmarkConvT2IIntptr-4 BenchmarkConvT2IIIntptr-4 BenchmarkConvT2IIIntptr-4 BenchmarkConvT2IIIntptr-4 BenchmarkConvI2I-4 BenchmarkConvI2I-4 BenchmarkConvI2I-4 BenchmarkSertE2T-4 BenchmarkAssertE2T-4 BenchmarkAssertE2T-4 BenchmarkAssertI2I-4 BenchmarkAssertI2E-4 BenchmarkAssertI2E-4 BenchmarkAssertI2E-4 BenchmarkAssertE2T-4 BenchmarkAssertI2E-4 BenchmarkAssertI2E2-4 BenchmarkAssertI2E2-4 BenchmarkAssertI2E2-4	10000000 5000000 2000000 2000000 20000000 20000000	217 289 770 9442 600452 79 77 80 77 362 394 457 482 524 600 60 302 121 131 329 125 328 84 32 129 18 91 16 159 16 159 16 159 16 16 16 16 16 16 16 16 16 16	ns/op ns/op ns/op ns/op ns/op ns/op ns/op 0 ns/op 0 ns/op 0 ns/op	55.18 MB/s 83.10 MB/s 108.44 MB/s
BenchmarkHash16-4 BenchmarkHash16-4 BenchmarkHash1024-4 BenchmarkHash1024-4 BenchmarkEqEfaceConcrete-4 BenchmarkEqEfaceConcrete-4 BenchmarkNeIfaceConcrete-4 BenchmarkConvT2ESmall-4 BenchmarkConvT2ESmall-4 BenchmarkConvT2EUintptr-4 BenchmarkConvT2ISmall-4 BenchmarkConvT2IIIntptr-4 BenchmarkConvT2IIIntptr-4 BenchmarkConvT2IIIntptr-4 BenchmarkConvT2IIIntptr-4 BenchmarkConvT2IIIntptr-4 BenchmarkConvI2I-4 BenchmarkConvI2I-4 BenchmarkConvI2I-4 BenchmarkASsertE2T-4 BenchmarkAssertE2T-4 BenchmarkAssertI2I-4 BenchmarkAssertI2I-4 BenchmarkAssertI2I-4 BenchmarkAssertI2I-4 BenchmarkAssertI2I-4 BenchmarkAssertI2I-4 BenchmarkAssertI2I-4 BenchmarkAssertI2E-4 BenchmarkAssertI2E-1	10000000 5000000 2000000 2000000 20000000 20000000	217 289 770 9442 600452 79 77 80 77 362 394 457 482 524 600 60 302 121 131 329 125 328 84 32 129 18 91 16 16 15 19 16 16 16 16 16 16 16 16 16 16	ns/op ns/op ns/op ns/op ns/op ns/op ns/op ns/op 0 ns/op 0 ns/op rs/op ns/op	55.18 MB/s 83.10 MB/s 108.44 MB/s
BenchmarkHash16-4 BenchmarkHash16-4 BenchmarkHash64-4 BenchmarkHash65536-4 BenchmarkHash65536-4 BenchmarkEqEfaceConcrete-4 BenchmarkEqEfaceConcrete-4 BenchmarkNeEfaceConcrete-4 BenchmarkConvT2ESmall-4 BenchmarkConvT2EUintptr-4 BenchmarkConvT2EUintptr-4 BenchmarkConvT2ISmall-4 BenchmarkConvT2ILarge-4 BenchmarkConvT2ILarge-4 BenchmarkConvT2ILarge-4 BenchmarkConvI2I-4 BenchmarkConvI2I-4 BenchmarkConvI2I-4 BenchmarkAssertE2T-4 BenchmarkAssertE2T-4 BenchmarkAssertE2T-4 BenchmarkAssertI2E-4 BenchmarkAssertI2E-4 BenchmarkAssertI2E-4 BenchmarkAssertE2T-4 BenchmarkAssertE2T-4 BenchmarkAssertE2T-4 BenchmarkAssertI2E-4 BenchmarkAssertE2T-4 BenchmarkAssertE2E-4 BenchmarkAssertE2E-4 BenchmarkAssertE2E-4 BenchmarkAssertI2E2-4 BenchmarkAssertI2E2-4 BenchmarkAssertI2E2-1 BenchmarkAssertI2E2-1 BenchmarkAssertI2E2-1 BenchmarkAssertI2E2-1	10000000 5000000 2000000 2000000 20000000 20000000	217 289 770 9442 600452 79 77 80 77 362 394 457 482 524 600 60 302 121 131 329 125 328 84 32 129 18 91 16 159 16 317 485	ns/op ns/op ns/op ns/op ns/op ns/op ns/op 0 ns/op 0 ns/op 0 ns/op	55.18 MB/s 83.10 MB/s 108.44 MB/s
BenchmarkHash5-4 BenchmarkHash64-4 BenchmarkHash64-4 BenchmarkHash65536-4 BenchmarkEqEfaceConcrete-4 BenchmarkEqEfaceConcrete-4 BenchmarkEqIfaceConcrete-4 BenchmarkConvT2ESmall-4 BenchmarkConvT2ESmall-4 BenchmarkConvT2EUntptr-4 BenchmarkConvT2ISmall-4 BenchmarkConvT2ILiarge-4 BenchmarkConvT2ILiarge-4 BenchmarkConvT2ILiarge-4 BenchmarkConvT2ILiarge-4 BenchmarkConvT2ILiarge-4 BenchmarkConvT2ILiarge-4 BenchmarkConvT2IL-4 BenchmarkConvT2IL-4 BenchmarkAssertE2T-4 BenchmarkAssertE2T-4 BenchmarkAssertE2T-4 BenchmarkAssertI2E-4 BenchmarkAssertI2E-4 BenchmarkAssertI2E-4 BenchmarkAssertI2E-4 BenchmarkAssertE2E-4 BenchmarkAssertE2E-4 BenchmarkAssertE2E-4 BenchmarkAssertE2E-4 BenchmarkAssertE2E-4 BenchmarkAssertE2E-4 BenchmarkAssertE2E-8 BenchmarkAssertE2E-8 BenchmarkAssertE2E-8 BenchmarkAssertE2E2Blank-4	10000000 5000000 2000000 2000000 20000000 20000000	217 289 770 9442 600452 79 77 80 77 362 394 457 482 524 600 60 302 2121 131 329 125 328 84 32 129 18 91 16 159 16 159 16 179 189 199 199 199 199 199 199 19	ns/op ns/op ns/op ns/op ns/op ns/op ns/op ns/op 0 ns/op 0 ns/op	55.18 MB/s 83.10 MB/s 108.44 MB/s
BenchmarkHash5-4 BenchmarkHash64-4 BenchmarkHash64-4 BenchmarkHash65536-4 BenchmarkEqEfaceConcrete-4 BenchmarkEqEfaceConcrete-4 BenchmarkEqIfaceConcrete-4 BenchmarkConvT2ECIntptr-4 BenchmarkConvT2EUntptr-4 BenchmarkConvT2IIntptr-4 BenchmarkConvT2IIntptr-4 BenchmarkConvT2IIntptr-4 BenchmarkConvT2IIntptr-4 BenchmarkConvT2IIntptr-4 BenchmarkConvT2IIntptr-4 BenchmarkConvT2IIntptr-4 BenchmarkConvI2I-4 BenchmarkConvI2I-4 BenchmarkAssertE2T-4 BenchmarkAssertE2T-4 BenchmarkAssertE2T-4 BenchmarkAssertI2I-4 BenchmarkAssertI2I-4 BenchmarkAssertI2I-4 BenchmarkAssertI2I-4 BenchmarkAssertI2E-4 BenchmarkAssertI2E-4 BenchmarkAssertI2E-4 BenchmarkAssertI2E2-4 BenchmarkAssertI2E2-4 BenchmarkAssertI2E2-4 BenchmarkAssertI2E2Blank-4 BenchmarkAssertE2E2Blank-4 BenchmarkMalloc16-4 BenchmarkMalloc16-4	10000000 5000000 2000000 2000000 20000000 20000000	217 289 770 9442 600452 79 77 80 77 362 394 457 482 524 600 60 302 121 131 329 125 328 84 32 129 16 159 16 317 485 587 661	ns/op ns/op ns/op ns/op ns/op ns/op ns/op ns/op 0 ns/op 0 ns/op	55.18 MB/s 83.10 MB/s 108.44 MB/s
BenchmarkHash5-4 BenchmarkHash16-4 BenchmarkHash16-4 BenchmarkHash1024-4 BenchmarkHash1024-4 BenchmarkBqffaceConcrete-4 BenchmarkRqffaceConcrete-4 BenchmarkNeEfaceConcrete-4 BenchmarkNeIfaceConcrete-4 BenchmarkConvT2ESmall-4 BenchmarkConvT2EUnitptr-4 BenchmarkConvT2EUritptr-4 BenchmarkConvT2IInatl-4 BenchmarkConvT2IIntptr-4 BenchmarkConvT2IIntptr-4 BenchmarkConvT2ILarge-4 BenchmarkConvT2ILarge-4 BenchmarkConvT2ILarge-4 BenchmarkConvIZI-4 BenchmarkAssertE2T-4 BenchmarkAssertE2T-4 BenchmarkAssertI2T-4 BenchmarkAssertI2E-4 BenchmarkAssertI2E-4 BenchmarkAssertI2E-4 BenchmarkAssertI2E-2 BenchmarkAssertI2E-2 BenchmarkAssertI2E-2 BenchmarkAssertI2E-2 BenchmarkAssertI2E-2 BenchmarkAssertI2E-2 BenchmarkAssertI2E-3 BenchmarkAssertI2E-4 BenchmarkAssertI2E-4 BenchmarkAssertI2E-4 BenchmarkAssertI2E-1 BenchmarkAssertI2E-1 BenchmarkAssertI2E-2 BenchmarkAssertI2E-3 BenchmarkAssertI2E-4 BenchmarkAssertI2E-4 BenchmarkAssertI2E-8 BenchmarkAssertI2E-8 BenchmarkAssertI2E-8 BenchmarkAssertI2E-8 BenchmarkAssertI2E-8 BenchmarkAssertI2E-9 Benchmar	10000000 5000000 2000000 2000000 20000000 20000000	217 289 770 9442 600452 79 77 80 77 362 394 457 482 524 600 60 302 121 131 329 125 328 84 32 129 16 159 16 317 485 587 661	ns/op ns/op ns/op ns/op ns/op ns/op ns/op 0 ns/op 0 ns/op 0 ns/op	55.18 MB/s 83.10 MB/s 108.44 MB/s

			,				
BenchmarkGoroutineBlocking-4	100	17222169					
BenchmarkGoroutineForRange-4	100	19092854					
BenchmarkGoroutineIdle-4	100	12554944	-				
BenchmarkMapPop100-4	5000	270721	-				
BenchmarkMapPop1000-4	300	4674884	-				
BenchmarkMapPop10000-4	10	110070793	-				
BenchmarkHashStringSpeed-4	3000000		ns/op				
BenchmarkHashBytesSpeed-4	2000000		ns/op				
BenchmarkHashInt32Speed-4	5000000		ns/op				
BenchmarkHashInt64Speed-4	5000000		ns/op				
BenchmarkHashStringArraySpeed-4	2000000		ns/op				
BenchmarkMegMap-4	5000000		ns/op				
BenchmarkMegOneMap-4	5000000	10147332	ns/op				
BenchmarkMegEqMap-4	100		-				
BenchmarkMegEmptyMap-4 BenchmarkSmallStrMap-4	5000000		ns/op ns/op				
BenchmarkMapStringKeysEight 16-4	5000000		ns/op				
BenchmarkMapStringKeysEight 32-4	5000000		ns/op				
BenchmarkMapStringKeysEight 64-4	5000000		ns/op				
BenchmarkMapStringKeysEight 1M-4	5000000		ns/op				
BenchmarkIntMap-4	10000000		ns/op				
BenchmarkRepeatedLookupStrMapKey32-4	2000000	799	ns/op				
BenchmarkRepeatedLookupStrMapKey1M-4	100	10023558	ns/op				
BenchmarkNewEmptyMap-4	2000000	841	ns/op	0	B/op	0 allocs/op	
BenchmarkNewSmallMap-4	1000000	2357	ns/op	0	B/op	0 allocs/op	
BenchmarkMapIter-4	1000000	2132	ns/op				
BenchmarkMapIterEmpty-4	20000000	107	ns/op				
BenchmarkSameLengthMap-4	20000000	111	ns/op				
BenchmarkBigKeyMap-4	2000000	727	ns/op				
BenchmarkBigValMap-4	2000000		ns/op				
BenchmarkSmallKeyMap-4	5000000		ns/op				
BenchmarkComplexAlgMap-4	1000000		ns/op				
BenchmarkMemmove0-4	30000000		7 ns/op				
BenchmarkMemmove1-4	30000000		2 ns/op	19.93			
BenchmarkMemmove2-4	30000000		7 ns/op	37.28			
BenchmarkMemmove3-4 BenchmarkMemmove4-4	30000000 20000000		9 ns/op 1 ns/op	52.76 65.42			
BenchmarkMemmove5-4	20000000		8 ns/op	65.95			
BenchmarkMemmove6-4	20000000		2 ns/op	75.80			
BenchmarkMemmove7-4	20000000		5 ns/op	84.84			
BenchmarkMemmove8-4	20000000		8 ns/op	123.37			
BenchmarkMemmove9-4	20000000		1 ns/op	134.16			
BenchmarkMemmove10-4	20000000		4 ns/op	130.87			
BenchmarkMemmove11-4	20000000	81.	3 ns/op	135.30	MB/s		
BenchmarkMemmove12-4	20000000	66.	8 ns/op	179.68	MB/s		
BenchmarkMemmove13-4	20000000	70.	6 ns/op	184.23	MB/s		
BenchmarkMemmove14-4	20000000	75.	2 ns/op	186.19	MB/s		
BenchmarkMemmove15-4	20000000	79.	5 ns/op	188.74	MB/s		
BenchmarkMemmove16-4	2000000	71.	8 ns/op	222.73	MB/s		
BenchmarkMemmove32-4	20000000	68.	3 ns/op	468.52	MB/s		
BenchmarkMemmove64-4	20000000	79.	2 ns/op	808.35	MB/s		
BenchmarkMemmove128-4	20000000		ns/op	1256.13			
BenchmarkMemmove256-4	10000000		ns/op	1755.64			
BenchmarkMemmove512-4	5000000		ns/op	2095.34			
BenchmarkMemmove1024-4	3000000		ns/op	2153.54			
BenchmarkMemmove2048-4	2000000		ns/op	2317.95			
BenchmarkMemmove4096-4 BenchmarkMemmoveUnaligned0-4	1000000		ns/op	2262.99	rid/S		
BenchmarkMemmoveUnalignedU-4 BenchmarkMemmoveUnaligned1-4	30000000 20000000		1 ns/op 3 ns/op	15.81	MB/s		
BenchmarkMemmoveUnaligned2-4	20000000		6 ns/op	30.04			
BenchmarkMemmoveUnaligned3-4	20000000		9 ns/op	42.89			
BenchmarkMemmoveUnaligned4-4	20000000		6 ns/op	41.85			
BenchmarkMemmoveUnaligned5-4	20000000		6 ns/op	50.73			
BenchmarkMemmoveUnaligned6-4	20000000		9 ns/op	60.08			
BenchmarkMemmoveUnaligned7-4	20000000		ns/op	68.77			
BenchmarkMemmoveUnaligned8-4	20000000	108	ns/op	73.58	MB/s		
BenchmarkMemmoveUnaligned9-4	20000000	112	ns/op	79.90	MB/s		
BenchmarkMemmoveUnaligned10-4	10000000	126	ns/op	79.18	MB/s		
BenchmarkMemmoveUnaligned11-4	10000000		ns/op	85.32	MB/s		
BenchmarkMemmoveUnaligned12-4	10000000		ns/op	90.67			
BenchmarkMemmoveUnaligned13-4	10000000		ns/op	103.51			
BenchmarkMemmoveUnaligned14-4	10000000		ns/op	105.50			
BenchmarkMemmoveUnaligned15-4	10000000		ns/op	108.38			
BenchmarkMemmoveUnaligned16-4	10000000		ns/op	112.89			
BenchmarkMemmoveUnaligned32-4	10000000		ns/op	207.69			
BenchmarkMemmoveUnaligned64-4 BenchmarkMemmoveUnaligned128-4	10000000 5000000		ns/op ns/op	303.20 401.47			
BenchmarkMemmoveUnaligned125-4 BenchmarkMemmoveUnaligned256-4	3000000		ns/op	586.76			
	230000	150	op	200.70	, 0		

BenchmarkMemmoveUnaligned512-4	2000000	722 ns/op	708.50 MB/s		
BenchmarkMemmoveUnaligned1024-4	1000000	1296 ns/op	789.56 MB/s		
BenchmarkMemmoveUnaligned2048-4	500000	2576 ns/op	794.83 MB/s		
BenchmarkMemmoveUnaligned4096-4	300000	4999 ns/op	819.32 MB/s		
BenchmarkMemclr5-4 BenchmarkMemclr16-4	20000000	77.1 ns/op 96.3 ns/op			
BenchmarkMemclr64-4	20000000	85.0 ns/op			
BenchmarkMemclr256-4	10000000	125 ns/op	2040.75 MB/s		
BenchmarkMemclr4096-4	1000000	1662 ns/op	2464.13 MB/s		
BenchmarkMemclr65536-4	30000	50428 ns/op	1299.58 MB/s		
BenchmarkMemclr1M-4	2000	875472 ns/op	1197.73 MB/s		
BenchmarkMemclr4M-4	500	3529939 ns/op	1188.21 MB/s		
BenchmarkMemclr8M-4	200	7088731 ns/op	1183.37 MB/s		
BenchmarkMemclr16M-4	100	14275180 ns/op	1175.27 MB/s		
BenchmarkMemclr64M-4	20	59343321 ns/op	1130.86 MB/s		
BenchmarkGoMemclr5-4	20000000	61.4 ns/op	81.44 MB/s		
BenchmarkGoMemclr16-4	20000000	81.7 ns/op	195.78 MB/s		
BenchmarkGoMemclr64-4	20000000	69.8 ns/op	917.14 MB/s		
BenchmarkGoMemclr256-4	20000000	109 ns/op	2339.84 MB/s		
BenchmarkClearFat8-4	200000000	7.84 ns/o			
BenchmarkClearFat12-4	200000000	8.93 ns/o			
BenchmarkClearFat16-4	100000000	10.1 ns/op			
BenchmarkClearFat24-4	100000000	12.3 ns/op			
BenchmarkClearFat32-4	100000000	14.5 ns/op			
BenchmarkClearFat40-4	30000000	52.4 ns/op			
BenchmarkClearFat48-4 BenchmarkClearFat56-4	20000000	60.3 ns/op 65.9 ns/op			
BenchmarkClearFat56-4 BenchmarkClearFat64-4	20000000	73.8 ns/op			
BenchmarkClearFat128-4	10000000	126 ns/op			
BenchmarkClearFat256-4	10000000	234 ns/op			
BenchmarkClearFat512-4	3000000	448 ns/op			
BenchmarkClearFat1024-4	2000000	872 ns/op			
BenchmarkCopyFat8-4	200000000	6.72 ns/o	p		
BenchmarkCopyFat12-4	200000000	7.80 ns/o	p		
BenchmarkCopyFat16-4	200000000	8.93 ns/o	p		
BenchmarkCopyFat24-4	100000000	11.2 ns/op			
BenchmarkCopyFat32-4	100000000	17.9 ns/op			
BenchmarkCopyFat64-4	20000000	75.0 ns/op			
BenchmarkCopyFat128-4	10000000	128 ns/op			
BenchmarkCopyFat256-4	10000000	236 ns/op			
BenchmarkCopyFat512-4	3000000	449 ns/op			
BenchmarkCopyFat1024-4	2000000	879 ns/op			
BenchmarkFinalizer-4	500	3830391 ns/op			
BenchmarkFinalizerRun-4 BenchmarkSyscall-4	200000 5000000	6697 ns/op 296 ns/op			
BenchmarkSyscallWork-4	3000000	551 ns/op			
BenchmarkSyscallExcess-4	5000000	296 ns/op			
BenchmarkSyscallExcessWork-4	3000000	552 ns/op			
BenchmarkPingPongHog-4	100000	13315 ns/op			
BenchmarkStackGrowth-4	500000	2461 ns/op			
BenchmarkStackGrowthDeep-4	2000	1028254 ns/op			
BenchmarkCreateGoroutines-4	500000	2722 ns/op			
BenchmarkCreateGoroutinesParallel-4	2000000	649 ns/op			
BenchmarkCreateGoroutinesCapture-4	100000	21739 ns/op	16 B/op	1 allocs/op	
BenchmarkClosureCall-4	3000000	48.0 ns/op			
BenchmarkMatmult-4	50000000	40.3 ns/op			
BenchmarkIfaceCmp100-4	500000	2369 ns/op			
BenchmarkIfaceCmpNil100-4	500000	2475 ns/op			
BenchmarkDefer-4	1000000	1203 ns/op			
BenchmarkDefer10-4	1000000	1089 ns/op			
BenchmarkDeferMany-4	1000000	2045 ns/op			
BenchmarkStackCopy-4 BenchmarkCompareStringEqual=4	10000000	2767373639 ns/op			
BenchmarkCompareStringEqual-4 BenchmarkCompareStringIdentical-4	10000000 30000000	140 ns/op 41.4 ns/op			
BenchmarkCompareStringIdentIcal=4 BenchmarkCompareStringSameLength-4	20000000	92.0 ns/op			
BenchmarkCompareStringDifferentLength-4		13.4 ns/op			
BenchmarkCompareStringBigUnaligned-4	100	11917034 ns/op	87.99 MB/s		
BenchmarkCompareStringBig-4	200	10163432 ns/op	103.17 MB/s		
BenchmarkRuneIterate-4	500000	3969 ns/op			
BenchmarkRuneIterate2-4	500000	3947 ns/op			
BenchmarkUint32Div7-4	20000000	102 ns/op			
BenchmarkUint32Div37-4	20000000	102 ns/op			
BenchmarkUint32Div123-4	20000000	102 ns/op			
BenchmarkUint32Div763-4	20000000	102 ns/op			
BenchmarkUint32Div1247-4	20000000	102 ns/op			
BenchmarkUint32Div9305-4	20000000	102 ns/op			
BenchmarkUint32Div13307-4	20000000	102 ns/op			
BenchmarkUint32Div52513-4	20000000	103 ns/op			

BenchmarkUint32Div60978747-4	2000000	98.7 ns/op	
BenchmarkUint32Div106956295-4	2000000	100.0 ns/op	
BenchmarkUint32Mod7-4	2000000	102 ns/op	
BenchmarkUint32Mod37-4	2000000	102 ns/op	
BenchmarkUint32Mod123-4	2000000	102 ns/op	
BenchmarkUint32Mod763-4	2000000	103 ns/op	
BenchmarkUint32Mod1247-4	2000000	103 ns/op	
BenchmarkUint32Mod9305-4	2000000	102 ns/op	
BenchmarkUint32Mod13307-4	2000000	102 ns/op	
BenchmarkUint32Mod52513-4	2000000	103 ns/op	
BenchmarkUint32Mod60978747-4	2000000	100 ns/op	
BenchmarkUint32Mod106956295-4	2000000	100 ns/op	
ok runtime 562.289s			

Raspberry Pi Zero

Architecture: 1 GHz ARM1176JZF-S, running at 700Mhz; 512MB RAM

Operating System: Raspbian Jessie

```
$ go version
go version devel +5c24832 Sat Dec 5 00:10:40 2015 +0000 linux/arm
BenchmarkAppend
                                   3000000
                                                  518 ns/op
                                20 95720661 ns/op
BenchmarkAppendGrowByte
BenchmarkAppendGrowString
                                        1 2232033275 ns/op
                                20000000
BenchmarkAppend1Byte
                                                   99.0 ns/op
BenchmarkAppend4Bytes
                                  10000000
                                                   120 ns/op
                                 10000000
                                                  155 ns/op
BenchmarkAppend7Bytes
                                 10000000
BenchmarkAppend8Bytes
                                                  132 ns/op
BenchmarkAppend15Bytes
                                                  162 ns/op
                                  10000000
BenchmarkAppend16Bytes
                                                  134 ns/op
                                  10000000
BenchmarkAppend32Bytes
                                                  121 ns/op
BenchmarkAppendStr1Byte
                                  20000000
                                                   97.0 ns/op
                                                  118 ns/op
BenchmarkAppendStr4Bytes
                                  10000000
                                                  129 ns/op
BenchmarkAppendStr8Bytes
                                  10000000
BenchmarkAppendStr16Bytes
                                   10000000
                                                  132 ns/op
BenchmarkAppendStr32Bytes
                                  10000000
                                                  121 ns/op
                                                  791 ns/op
{\tt BenchmarkAppendSpecialCase}
                                   2000000
BenchmarkCopy1Byte
                                  10000000
                                                  132 ns/op
                                                               7.54 MB/s
BenchmarkCopy2Byte
                                   10000000
                                                  144 ns/op
                                                              13.81 MB/s
BenchmarkCopy4Byte
                                  10000000
                                                  153 ns/op 26.12 MB/s
                                   10000000
                                                              48.51 MB/s
BenchmarkCopy8Byte
                                                  164 ns/op
BenchmarkCopy12Byte
                                 10000000
                                                  162 ns/op
                                                              74.03 MB/s
BenchmarkCopy16Byte
                                  10000000
                                                  167 ns/op
                                                              95.63 MB/s
                                  10000000
                                                  155 ns/op 205.20 MB/s
BenchmarkCopy32Byte
                                  10000000
                                                  192 ns/op 664.06 MB/s
BenchmarkCopy128Byte
                                   2000000
                                                  689 ns/op 1484.28 MB/s
BenchmarkCopy1024Byte
BenchmarkCopy1String
                                  10000000
                                                  120 ns/op
                                                              8.27 MB/s
                                                  134 ns/op 14.85 MB/s
BenchmarkCopy2String
                                  10000000
BenchmarkCopy4String
                                  10000000
                                                  142 ns/op 28.01 MB/s
                                  10000000
{\tt BenchmarkCopy8String}
                                                  154 ns/op
                                                              51.81 MB/s
                                  10000000
BenchmarkCopy12String
                                                  151 ns/op
                                                              79.01 MB/s
BenchmarkCopy16String
                                  10000000
                                                  157 ns/op 101.82 MB/s
BenchmarkCopy32String
                                  10000000
                                                  145 ns/op 219.52 MB/s
BenchmarkCopy128String
                                  10000000
                                                  182 ns/op
                                                             700.88 MB/s
BenchmarkCopy1024String
                                   2000000
                                                  976 ns/op 1048.87 MB/s
BenchmarkChanNonblocking
                                   5000000
                                                  246 ns/op
BenchmarkSelectUncontended
                                    500000
                                                 3610 ns/op
                                    100000
                                                 18957 ns/op
BenchmarkSelectSyncContended
BenchmarkSelectAsyncContended
                                                 3614 ns/op
                                    500000
                                   2000000
BenchmarkSelectNonblock
{\tt BenchmarkChanUncontended}
                                    10000
                                                135820 ns/op
BenchmarkChanContended
                                     10000
                                               133122 ns/op
BenchmarkChanSync
                                    200000
                                                 5870 ns/op
                                    200000
                                                  5899 ns/op
BenchmarkChanProdCons0
BenchmarkChanProdCons10
                                    500000
                                                  2138 ns/op
BenchmarkChanProdCons100
                                   1000000
                                                  1557 ns/op
BenchmarkChanProdConsWork0
                                    200000
                                                  8948 ns/op
BenchmarkChanProdConsWork10
                                    300000
                                                  5043 ns/op
                                                 4498 ns/op
BenchmarkChanProdConsWork100
                                    300000
BenchmarkSelectProdCons
                                    200000
                                                 10818 ns/op
                                                 3187 ns/op
BenchmarkChanCreation
                                    500000
BenchmarkChanSem
                                   1000000
                                                  1266 ns/op
BenchmarkChanPopular
                                       100
                                              14315946 ns/op
BenchmarkCallClosure
                                   30000000
                                                   50.0 ns/op
```

_ , , , , , , , , ,	0.5				
BenchmarkCallClosure1 BenchmarkCallClosure2	30000000 3000000		.3 ns/op ns/op		
BenchmarkCallClosure3	3000000		ns/op		
BenchmarkCallClosure4	3000000		ns/op		
BenchmarkComplex128DivNormal	2000000		ns/op		
BenchmarkComplex128DivNisNaN	200000		ns/op		
BenchmarkComplex128DivDisNaN	200000	5992	ns/op		
BenchmarkComplex128DivNisInf	5000000	390	ns/op		
BenchmarkComplex128DivDisInf	5000000	375	ns/op		
BenchmarkSetTypePtr	10000000		ns/op	33.43 M	
BenchmarkSetTypePtr8	10000000		ns/op	140.89 M	
BenchmarkSetTypePtr16	5000000		ns/op	224.30 M	
BenchmarkSetTypePtr32 BenchmarkSetTypePtr64	5000000 3000000		ns/op ns/op	329.65 M 432.77 M	
BenchmarkSetTypePtr126	1000000		ns/op	432.77 M	
BenchmarkSetTypePtr128	1000000		ns/op	510.46 M	
BenchmarkSetTypePtrSlice	200000		ns/op	551.43 M	
BenchmarkSetTypeNode1	10000000		ns/op	55.20 M	
BenchmarkSetTypeNode1Slice	1000000	1284	ns/op	299.03 M	B/s
BenchmarkSetTypeNode8	5000000	277	ns/op	144.17 M	B/s
BenchmarkSetTypeNode8Slice	500000	2825	ns/op	453.02 M	B/s
BenchmarkSetTypeNode64	2000000		ns/op	398.89 M	
BenchmarkSetTypeNode64Slice	100000		ns/op	543.92 M	
BenchmarkSetTypeNode64Dead	5000000		ns/op	689.66 M	
BenchmarkSetTypeNode64DeadSlice	100000		ns/op	637.46 M	
BenchmarkSetTypeNode124	1000000		ns/op	495.27 M	
BenchmarkSetTypeNode124Slice BenchmarkSetTypeNode126	200000		ns/op ns/op	573.14 M	
BenchmarkSetTypeNode126 BenchmarkSetTypeNode126Slice	2000000 50000		ns/op ns/op	511.10 M 617.43 M	
BenchmarkSetTypeNode128 BenchmarkSetTypeNode128	1000000		ns/op ns/op	617.43 M 478.22 M	
BenchmarkSetTypeNode128Slice	50000		ns/op	570.52 M	
BenchmarkSetTypeNode130	1000000		ns/op	494.83 M	
BenchmarkSetTypeNode130Slice	50000		ns/op	569.04 M	
BenchmarkSetTypeNode1024	200000		ns/op	573.51 M	
BenchmarkSetTypeNode1024Slice	5000	224292		585.52 M	
BenchmarkAllocation	2000	957094	ns/op		
BenchmarkHash5	5000000	349	ns/op	14.29 M	B/s
BenchmarkHash16	3000000		ns/op	36.66 M	
BenchmarkHash64	1000000		ns/op	63.49 M	
BenchmarkHash1024	200000		ns/op	90.88 M	
BenchmarkHash65536	2000	797741		82.15 M	B/s
BenchmarkEqEfaceConcrete	2000000		ns/op		
BenchmarkNoFfaceConcrete	20000000		ns/op		
BenchmarkNeEfaceConcrete	20000000		ns/op		
BenchmarkNeIfaceConcrete BenchmarkConvT2ESmall	20000000		ns/op		
BenchmarkConvT2ESmall BenchmarkConvT2EUintptr	3000000 2000000		ns/op ns/op		
BenchmarkConvT2EUintptr BenchmarkConvT2ELarge	2000000		ns/op ns/op		
BenchmarkConvT2ISmall	2000000		ns/op ns/op		
BenchmarkConvT2IUintptr	2000000		ns/op		
BenchmarkConvT2ILarge	2000000		ns/op		
BenchmarkConvI2E	2000000		.7 ns/op		
BenchmarkConvI2I	3000000		ns/op		
BenchmarkAssertE2T	10000000		ns/op		
BenchmarkAssertE2TLarge	10000000		ns/op		
BenchmarkAssertE2I	3000000		ns/op		
BenchmarkAssertI2T	10000000	176	ns/op		
BenchmarkAssertI2I	3000000	451	ns/op		
BenchmarkAssertI2E	2000000	109	ns/op		
BenchmarkAssertE2E	3000000		.7 ns/op		
BenchmarkAssertE2T2	10000000	180	ns/op		
BenchmarkAssertE2T2Blank	5000000		.8 ns/op		
BenchmarkAssertI2E2	2000000		ns/op		
BenchmarkAssertI2E2Blank	100000000		.7 ns/op		
BenchmarkAssertE2E2	10000000		ns/op		
BenchmarkAssertE2E2Blank	100000000		.8 ns/op		
BenchmarkMalloc8	3000000		ns/op		
BenchmarkMalloc16	2000000		ns/op		
BenchmarkMallocTypeInfo8 BenchmarkMallocTypeInfo16	2000000 1000000		ns/op ns/op		
BenchmarkMallocLargeStruct	500000		ns/op ns/op		
BenchmarkGoroutineSelect	20	4823 76172338			
BenchmarkGoroutineBlocking	20	63469806			
BenchmarkGoroutineForRange	20	64107650			
BenchmarkGoroutineIdle	20	60844381			
BenchmarkMapPop100	3000	409498			
BenchmarkMapPop1000	200	7783817			
BenchmarkMapPop10000	10	170736704			

	200000	540 /	
BenchmarkHashStringSpeed	3000000	541 ns/op	
BenchmarkHashBytesSpeed	1000000	1157 ns/op	
BenchmarkHashInt32Speed	5000000	371 ns/op	
BenchmarkHashInt64Speed	3000000	427 ns/op	
BenchmarkHashStringArraySpeed	1000000	1417 ns/op	
BenchmarkMegMap	3000000	404 ns/op 346 ns/op	
BenchmarkMegOneMap BenchmarkMegEqMap	5000000 100	346 ns/op 16663414 ns/op	
BenchmarkMegEmptyMap	10000000	160 ns/op	
BenchmarkSmallStrMap	3000000	415 ns/op	
BenchmarkMapStringKeysEight 16	3000000	417 ns/op	
BenchmarkMapStringKeysEight 32	3000000	417 hs/op 420 ns/op	
BenchmarkMapStringKeysEight 64	3000000	420 ns/op 420 ns/op	
BenchmarkMapStringKeysEight 1M	3000000	419 ns/op	
BenchmarkIntMap	10000000	220 ns/op	
BenchmarkRepeatedLookupStrMapKey32	10000000	1015 ns/op	
BenchmarkRepeatedLookupStrMapKey1M	100	15652033 ns/op	
BenchmarkNewEmptyMap	1000000	1395 ns/op 0 B/op 0 allocs/op	
BenchmarkNewSmallMap	300000	3368 ns/op 0 B/op 0 allocs/op	
BenchmarkMapIter	500000	2947 ns/op	
BenchmarkMapIterEmpty	20000000	163 ns/op	
BenchmarkSameLengthMap	10000000	133 ns/op	
BenchmarkBigKeyMap	2000000	899 ns/op	
BenchmarkBigValMap	2000000	922 ns/op	
BenchmarkSmallKeyMap	3000000	402 ns/op	
BenchmarkComplexAlgMap	1000000	2003 ns/op	
BenchmarkMemmove0	20000000	61.4 ns/op	
BenchmarkMemmove1	20000000	76.6 ns/op 13.05 MB/s	
BenchmarkMemmove2	20000000	86.3 ns/op 23.18 MB/s	
BenchmarkMemmove3	20000000	83.7 ns/op 35.83 MB/s	
BenchmarkMemmove4	20000000	88.0 ns/op 45.48 MB/s	
BenchmarkMemmove5	20000000	110 ns/op 45.37 MB/s	
BenchmarkMemmove6	20000000	115 ns/op 51.99 MB/s	
BenchmarkMemmove7	10000000	123 ns/op 56.89 MB/s	
BenchmarkMemmove8	20000000	99.5 ns/op 80.44 MB/s	
BenchmarkMemmove9	20000000	112 ns/op 79.76 MB/s	
BenchmarkMemmove10	10000000	125 ns/op 79.48 MB/s	
BenchmarkMemmove11	10000000	125 ns/op 87.84 MB/s	
BenchmarkMemmove12	20000000	96.9 ns/op 123.87 MB/s	
BenchmarkMemmove13	20000000	110 ns/op 117.83 MB/s	
BenchmarkMemmove14	10000000	123 ns/op 113.65 MB/s	
BenchmarkMemmove15	10000000	122 ns/op 122.30 MB/s	
BenchmarkMemmove16	20000000	101 ns/op 156.89 MB/s	
BenchmarkMemmove32	20000000	90.8 ns/op 352.44 MB/s	
BenchmarkMemmove64	20000000	108 ns/op 588.34 MB/s	
BenchmarkMemmove128	10000000	127 ns/op 1001.83 MB/s	
BenchmarkMemmove256	10000000	178 ns/op 1436.19 MB/s	
BenchmarkMemmove512	5000000	326 ns/op 1569.07 MB/s	
BenchmarkMemmove1024	2000000	631 ns/op 1620.84 MB/s	
BenchmarkMemmove2048	1000000	1251 ns/op 1636.60 MB/s	
BenchmarkMemmove4096	500000	2499 ns/op 1638.97 MB/s	
BenchmarkMemmoveUnaligned0	20000000	72.5 ns/op	
BenchmarkMemmoveUnaligned1	20000000	87.8 ns/op 11.39 MB/s	
BenchmarkMemmoveUnaligned2	20000000	99.4 ns/op 20.12 MB/s	
BenchmarkMemmoveUnaligned3	20000000	96.9 ns/op 30.96 MB/s	
BenchmarkMemmoveUnaligned4	10000000	135 ns/op 29.44 MB/s	
BenchmarkMemmoveUnaligned5	10000000	147 ns/op 33.90 MB/s	
BenchmarkMemmoveUnaligned6	10000000	146 ns/op 41.09 MB/s	
BenchmarkMemmoveUnaligned7	10000000	151 ns/op 46.27 MB/s	
BenchmarkMemmoveUnaligned8	10000000	156 ns/op 51.22 MB/s	
BenchmarkMemmoveUnaligned9	10000000	161 ns/op 55.82 MB/s	
BenchmarkMemmoveUnaligned10	10000000	166 ns/op 60.09 MB/s	
BenchmarkMemmoveUnaligned11	10000000	171 ns/op 64.17 MB/s	
BenchmarkMemmoveUnaligned12	10000000	177 ns/op 67.79 MB/s	
BenchmarkMemmoveUnaligned13 BenchmarkMemmoveUnaligned14	10000000	181 ns/op 71.60 MB/s 189 ns/op 74.03 MB/s	
BenchmarkMemmoveUnaligned15	10000000	196 ns/op 76.30 MB/s	
BenchmarkMemmoveUnaligned16	10000000	200 ns/op 79.91 MB/s	
BenchmarkMemmoveUnaligned32	10000000	221 ns/op 144.64 MB/s	
BenchmarkMemmoveUnaligned32 BenchmarkMemmoveUnaligned64	5000000	221 ns/op 144.64 mB/s 290 ns/op 220.16 MB/s	
BenchmarkMemmoveUnaligned128	3000000	413 ns/op 309.84 MB/s	
BenchmarkMemmoveUnaligned126	2000000	766 ns/op 334.16 MB/s	
BenchmarkMemmoveUnaligned512	2000000	925 ns/op 553.13 MB/s	
BenchmarkMemmoveUnaligned1024	500000	2747 ns/op 372.66 MB/s	
	500000	3180 ns/op 643.85 MB/s	
benchilar kmellilloveonarronedzu46			
BenchmarkMemmoveUnaligned2048 BenchmarkMemmoveUnaligned4096		6206 ns/op 659.99 MB/s	
BenchmarkMemmoveUnaligned4096	200000	6206 ns/op 659.99 MB/s 105 ns/op 47.53 MB/s	
		6206 ns/op 659.99 MB/s 105 ns/op 47.53 MB/s 110 ns/op 144.77 MB/s	

```
BenchmarkMemclr64
                                      10000000
                                                  125 ns/op 511.58 MB/s
BenchmarkMemclr256
                                      10000000
                                                      182 ns/op 1402.34 MB/s
BenchmarkMemclr4096
                                        500000
                                                     2489 ns/op 1645.22 MB/s
BenchmarkMemclr65536
                                        50000
                                                    39883 ns/op 1643.18 MB/s
BenchmarkMemclr1M
                                         2000
                                                    636812 ns/op 1646.60 MB/s
BenchmarkMemclr4M
                                          500
                                                  2549362 ns/op 1645.24 MB/s
                                           300
                                                  5162451 ns/op 1624.93 MB/s
BenchmarkMemclr8M
BenchmarkMemclr16M
                                                  10300878 ns/op 1628.72 MB/s
                                          200
BenchmarkMemclr64M
                                                  42801198 ns/op 1567.92 MB/s
                                     20000000
BenchmarkGoMemclr5
                                                       73.5 ns/op 67.99 MB/s
BenchmarkGoMemclr16
                                      20000000
                                                        85.9 ns/op
                                                                    186.24 MB/s
BenchmarkGoMemclr64
                                      20000000
                                                       87.8 ns/op
                                                                    729.24 MB/s
                                                      160 ns/op 1591.97 MB/s
BenchmarkGoMemclr256
                                      10000000
BenchmarkClearFat8
                                      100000000
                                                       15.6 ns/op
                                      100000000
BenchmarkClearFat12
                                                       27.5 ns/op
                                     100000000
BenchmarkClearFat16
                                                       32.4 ns/op
BenchmarkClearFat24
                                      50000000
                                                       57.0 ns/op
BenchmarkClearFat32
                                     50000000
                                                       80.5 ns/op
                                                       77.5 ns/op
BenchmarkClearFat40
                                      30000000
                                                      105 ns/op
RenchmarkClearFat48
                                     30000000
BenchmarkClearFat56
                                     20000000
                                                       87.1 ns/op
                                                      137 ns/op
BenchmarkClearFat64
                                     20000000
BenchmarkClearFat128
                                     20000000
                                                      278 ns/op
BenchmarkClearFat256
                                       5000000
                                                      537 ns/op
BenchmarkClearFat512
                                       2000000
                                                     1293 ns/op
BenchmarkClearFat1024
                                       1000000
                                                     2545 ns/op
                                                       12.2 ns/op
BenchmarkCopyFat8
                                      100000000
BenchmarkCopyFat12
                                      100000000
                                                       20.3 ns/op
BenchmarkCopyFat16
                                      100000000
                                                       34.3 ns/op
BenchmarkCopyFat24
                                      50000000
                                                       27.7 ns/op
                                      50000000
                                                       25.4 ns/op
BenchmarkCopyFat32
                                      20000000
                                                      135 ns/op
BenchmarkCopyFat64
                                                      299 ns/op
                                     10000000
BenchmarkCopyFat128
                                                      571 ns/op
BenchmarkCopvFat256
                                      2000000
BenchmarkCopyFat512
                                      1000000
                                                     1218 ns/op
BenchmarkCopyFat1024
                                       500000
                                                     2665 ns/op
                                                 20313669 ns/op
BenchmarkFinalizer
                                          50
                                                    49987 ns/op
BenchmarkFinalizerRun
                                        30000
                                                     1625 ns/op
BenchmarkSyscall
                                      1000000
BenchmarkSyscallWork
                                       500000
                                                     2668 ns/op
                                                     1613 ns/op
BenchmarkSyscallExcess
                                      1000000
BenchmarkSyscallExcessWork
                                        500000
                                                     2658 ns/op
                                                     20539 ns/op
BenchmarkPingPongHog
                                        100000
BenchmarkStackGrowth
                                        50000
                                                    28473 ns/op
                                                  2845263 ns/op
BenchmarkStackGrowthDeep
                                          500
BenchmarkCreateGoroutines
                                        300000
                                                     4297 ns/op
BenchmarkCreateGoroutinesParallel
                                        300000
                                                     4300 ns/op
BenchmarkCreateGoroutinesCapture
                                        50000
                                                     33218 ns/op
                                                                       16 B/op
                                                                                      1 allocs/op
BenchmarkClosureCall
                                      30000000
                                                       55.1 ns/op
                                     10000000
                                                      196 ns/op
BenchmarkMatmult
BenchmarkIfaceCmp100
                                       500000
                                                     2672 ns/op
BenchmarkIfaceCmpNil100
                                                     2982 ns/op
                                       500000
BenchmarkDefer
                                       1000000
                                                     1819 ns/op
                                      1000000
                                                     1478 ns/op
BenchmarkDefer10
                                                     3464 ns/op
BenchmarkDeferMany
                                       500000
BenchmarkStackCopy
                                           1 3714828065 ns/op
                                                      160 ns/op
BenchmarkCompareStringEqual
                                     10000000
BenchmarkCompareStringIdentical
                                     30000000
                                                       54.1 ns/op
BenchmarkCompareStringSameLength
                                     20000000
                                                      111 ns/op
                                                       16.3 ns/op
BenchmarkCompareStringDifferentLength 100000000
BenchmarkCompareStringBigUnaligned
                                         100
                                                 16695582 ns/op
                                                                   62.81 MB/s
                                                  17208318 ns/op
BenchmarkCompareStringBig
                                          100
                                       300000
                                                     5159 ns/op
BenchmarkRuneIterate
                                        300000
                                                     5158 ns/op
BenchmarkUint32Div7
                                     10000000
                                                      144 ns/op
BenchmarkUint32Div37
                                      10000000
                                                       144 ns/op
BenchmarkUint32Div123
                                      10000000
                                                      144 ns/op
BenchmarkUint32Div763
                                      10000000
                                                      148 ns/op
BenchmarkUint32Div1247
                                      10000000
                                                      144 ns/op
BenchmarkUint32Div9305
                                                       144 ns/op
BenchmarkUint32Div13307
                                      10000000
                                                      144 ns/op
BenchmarkUint32Div52513
                                                       144 ns/op
BenchmarkUint32Div60978747
                                                       131 ns/op
                                                       131 ns/op
BenchmarkUint32Div106956295
                                      10000000
BenchmarkUint32Mod7
                                      10000000
                                                       144 ns/op
BenchmarkUint32Mod37
                                      10000000
                                                       144 ns/op
BenchmarkUint32Mod123
                                      10000000
                                                       144 ns/op
BenchmarkUint32Mod763
                                      10000000
                                                       144 ns/op
```

Bench	markUint32Mod1247	10000000	144 ns/op
Bench	markUint32Mod9305	10000000	144 ns/op
Bench	markUint32Mod13307	10000000	144 ns/op
Bench	markUint32Mod52513	10000000	144 ns/op
Bench	markUint32Mod60978747	10000000	131 ns/op
Bench	markUint32Mod106956295	10000000	131 ns/op
ok	runtime 566.969s		

ODROID-X

Architecture: ARMv7 quad-core Cortex-A9 (Samsung Exynos 4412 1.4GHz), 1GB RAM, Mali graphics (untested).

Operating System: Archlinux ARM

Go pre-1.1 compiles out of the box. The four cores make it particularly suited to Go multi-threaded programs. An ODROID-X2 is coming (Nov 2012) with more RAM.

-- Rémy Oudompheng

BananaPi

BananaPi has a few enhanced hardware components compare with Raspberry Pi.

Architecture	Comments
Allwinner A20(ARM Cortex-A7 Dual-core, 1GHz, Mali400MP2 GPU)	tbc
eSATA	No worry to wear out your root SD Card
Onboard Microphone	tbc
1G Etherenet	tbc
1G RAM	tbc
Reset Switch	To reset the board ?
Power Switch	To power cycle the board ?

```
root@bpi01:/data/go13/src# cat ./buildgo.bash
#!/bin/bash
# use 1 CPU to avoid out of memory compilation issue.
time taskset 2 ./make.bash

root@bpi01:/data/go13/src# ./buildgo.bash

<snipped>

Installed Go for linux/arm in /data/go1.3
Installed commands in /data/go1.3/bin

real 9m9.222s
user 8m18.960s
sys 0m40.920s
root@bpi01:/data/go1.3/src#
```

AppliedMicro X-Gene (ARMv8)

Architecture: ARMv8 (64-bit) 8-core, 2.4GHz, 16GB RAM

Operating Systems: Linux, Fedora 21

You will need to cross-compile a toolchain using bootstrap.bash. After you copy it to the arm64 system and set GOROOT_BOOTSTRAP, you can build go natively.

96Boards HiKey (ARMv8)

Architecture: ARMv8 (64-bit) 8-core, 1.2GHz, 1GB RAM

Operating System: Linux (Linaro)

Go Version: 1.5Beta1

Special Notes: Enable a swap partition (<=1GB is fine). Build process is CPU-intensive and may cause the internal 90C temperature threshold to be exceeded - keep the HiKey cool during the build.

As mentioned above, use bootstrap.sh (e.g. on Ubuntu AMD64) for ARM64, then transfer over the bootstrap tbx file, untar it, and use it as GOROOT_BOOTSTRAP. Check out the Go sources into a separate GOROOT, and build.

--Andrew Cencini (andrew@vapor.io)

Scaleway C1 Server

⁻⁻T.J. Yang

Architecture: armv7l

Operating System: Debian 8.2 (armhf)

Go Version: 1.5

The Scaleway C1 Server is a dedicated ARM server with 2GiB RAM using a SAN for storage.

I used the following guide: Building Go 1.5 on the Raspberry Pi

--Laurent Debacker

Jetson Nano

Jetson Nano™ from NVIDIA® is a high performance low-power single board computer built for edge Artificial Intelligence computing. It has Quad-core ARM57 based CPU clocked at 1.43 Ghz, 128-core Maxwell based GPU and 4GB of LPDDR4 memory with 25.6 GB/s bandwidth.

Architecture: ARMv8-A

Operating System: Jetson Nano Developer Kit (Ubuntu 18.04 LTS) with JetPack 4.2

Kernel: I'm using a custom compiled official kernel with patch for enabling Zswap and having the root file system in a USB SSD. The procedure for doing this is detailed in Syonyk's blog.

```
abishek@Titan:~$ uname -a
Linux Titan 4.9.140 #1 SMP PREEMPT Thu May 23 01:33:05 IST 2019 aarch64 aarch64 GNU/Linux
```

Go Version

```
abishek@Titan:~$ go version
go version go1.12.5 linux/arm64
```

I used the ARMv8 version from Other Ports section of official downloads. I set the following system wide environment variables in /etc/environment.

```
GOROOT="/usr/local/go"

GOPATH="/home/abishek/Developer/go/packages"

PATH="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/usr/games:/usr/local/games:/usr/local/go/bin:/home/abishek/Devel

LANG="en_IN"
```

Benchmarks:

HW configuration: 5V 4A power via DC barrel jack. Noctua 40mm PWM fan. Samsung 840 EVO 120 GB SSD.

SW configuration : Headless. Zswap. 12 GB swap partition.

Simple benchmark.

```
abishek@Titan:~$ cd $GOROOT/src/runtime

$ go test -test.bench=BenchmarkUint

PASS

ok runtime 329.992s
```

Extensive benchmarks.

```
$ go test -test.bench=".*" -test.timeout="60m"
goarch: arm64
pkg: runtime
BenchmarkMakeChan/Byte-4
                                           10000000
                                                                 219 ns/op
BenchmarkMakeChan/Int-4
                                             5000000
                                                                  298 ns/op
BenchmarkMakeChan/Ptr-4
                                             3000000
                                                                  452 ns/op
                                             10000000
BenchmarkMakeChan/Struct/0-4
                                                                  196 ns/op
BenchmarkMakeChan/Struct/32-4
                                             3000000
                                                                  519 ns/op
BenchmarkMakeChan/Struct/40-4
                                             3000000
                                                                 592 ns/op
                                           200000000
BenchmarkChanNonblocking-4
                                                                    7.93 ns/op
BenchmarkSelectUncontended-4
                                           10000000
                                                                  124 ns/op
                                                                7358 ns/op
BenchmarkSelectSyncContended-4
                                              200000
                                                                671 ns/op
BenchmarkSelectAsyncContended-4
                                             2000000
                                           100000000
                                                                  22.7 ns/op
BenchmarkSelectNonblock-4
                                                                 6956 ns/op
BenchmarkChanUncontended-4
                                              200000
                                                               51996 ns/op
BenchmarkChanContended-4
                                               30000
                                                                 1118 ns/op
BenchmarkChanSync-4
                                             1000000
BenchmarkChanSyncWork-4
                                               200000
                                                               11784 ns/op
BenchmarkChanProdCons0-4
                                             2000000
                                                                 817 ns/op
BenchmarkChanProdCons10-4
                                              2000000
                                                                  656 ns/op
BenchmarkChanProdCons100-4
                                              3000000
                                                                  561 ns/op
BenchmarkChanProdConsWork0-4
                                              2000000
                                                                  803 ns/op
BenchmarkChanProdConsWork10-4
                                              2000000
                                                                  706 ns/op
BenchmarkChanProdConsWork100-4
                                              2000000
                                                                  633 ns/op
                                              1000000
BenchmarkSelectProdCons-4
                                                                1411 ns/op
```

BenchmarkChanCreation-4	10000000	206 ns/op	
BenchmarkChanSem-4	3000000	502 ns/op	
BenchmarkChanPopular-4	1000	1503920 ns/op	
BenchmarkCallClosure-4	200000000	6.54 ns/op	
BenchmarkCallClosure1-4	300000000	5.94 ns/op	
BenchmarkCallClosure2-4 BenchmarkCallClosure3-4	20000000	72.0 ns/op	
BenchmarkCallClosure4-4	20000000	77.9 ns/op 74.6 ns/op	
BenchmarkComplex128DivNormal-4	20000000	72.3 ns/op	
BenchmarkComplex128DivNisNaN-4	30000000	47.0 ns/op	
BenchmarkComplex128DivNisNaN-4	20000000	67.6 ns/op	
BenchmarkComplex128DivNisInf-4	50000000	38.7 ns/op	
BenchmarkComplex128DivDisInf-4	20000000	79.3 ns/op	
BenchmarkSetTypePtr-4	200000000	8.54 ns/op	936.87 MB/s
BenchmarkSetTypePtr8-4	50000000	37.2 ns/op	1720.14 MB/s
BenchmarkSetTypePtr16-4	30000000	45.6 ns/op	2806.20 MB/s
BenchmarkSetTypePtr32-4	20000000	60.4 ns/op	4236.17 MB/s
BenchmarkSetTypePtr64-4	20000000	110 ns/op	4615.47 MB/s
BenchmarkSetTypePtr126-4	10000000	171 ns/op	5892.51 MB/s
BenchmarkSetTypePtr128-4	10000000	169 ns/op	6030.73 MB/s
BenchmarkSetTypePtrSlice-4	1000000	1589 ns/op	5154.84 MB/s
BenchmarkSetTypeNode1-4	50000000	33.7 ns/op	712.62 MB/s
BenchmarkSetTypeNode1Slice-4	10000000	197 ns/op	3881.85 MB/s
BenchmarkSetTypeNode8-4	3000000	42.1 ns/op	1899.69 MB/s
BenchmarkSetTypeNode8Slice-4	3000000	558 ns/op	4584.96 MB/s
BenchmarkSetTypeNode64-4	10000000	128 ns/op	4123.56 MB/s
BenchmarkSetTypeNode64Slice-4	500000	2707 ns/op	6240.73 MB/s 7291.77 MB/s
BenchmarkSetTypeNode64Dead-4	20000000	72.4 ns/op	
BenchmarkSetTypeNode64DeadSlice-4 BenchmarkSetTypeNode124-4	500000 10000000	3203 ns/op 169 ns/op	5274.16 MB/s 5961.36 MB/s
BenchmarkSetTypeNode124Slice-4	300000	4505 ns/op	7159.55 MB/s
BenchmarkSetTypeNode126-4	1000000	171 ns/op	5971.04 MB/s
BenchmarkSetTypeNode126Slice-4	300000	4430 ns/op	7395.67 MB/s
BenchmarkSetTypeNode128-4	10000000	181 ns/op	5737.43 MB/s
BenchmarkSetTypeNode128Slice-4	300000	4958 ns/op	6711.13 MB/s
BenchmarkSetTypeNode130-4	10000000	183 ns/op	5764.99 MB/s
BenchmarkSetTypeNode130Slice-4	300000	5092 ns/op	6635.64 MB/s
BenchmarkSetTypeNode1024-4	1000000	1104 ns/op	7430.05 MB/s
BenchmarkSetTypeNode1024Slice-4	50000	32624 ns/op	8050.89 MB/s
BenchmarkAllocation-4	30000	42818 ns/op	
BenchmarkAllocation-4 BenchmarkReadMemStats-4	30000 50000		
		42818 ns/op	
BenchmarkReadMemStats-4 BenchmarkWriteBarrier-4 BenchmarkBulkWriteBarrier-4	50000 20000000 50000000	42818 ns/op 26260 ns/op 59.5 ns/op 30.4 ns/op	
BenchmarkReadMemStats-4 BenchmarkWriteBarrier-4 BenchmarkBulkWriteBarrier-4 BenchmarkScanStackNoLocals-4	50000 20000000 50000000 10	42818 ns/op 26260 ns/op 59.5 ns/op 30.4 ns/op 161375576 ns/op	
BenchmarkReadMemStats-4 BenchmarkWriteBarrier-4 BenchmarkBulkWriteBarrier-4 BenchmarkScanStackNoLocals-4 BenchmarkHash5-4	50000 20000000 50000000 10 50000000	42818 ns/op 26260 ns/op 59.5 ns/op 30.4 ns/op 161375576 ns/op 24.4 ns/op	205.24 MB/s
BenchmarkReadMemStats-4 BenchmarkWriteBarrier-4 BenchmarkBulkWriteBarrier-4 BenchmarkScanStackNoLocals-4 BenchmarkHash5-4 BenchmarkHash16-4	50000 20000000 50000000 10 50000000 100000000	42818 ns/op 26260 ns/op 59.5 ns/op 30.4 ns/op 161375576 ns/op 24.4 ns/op 22.9 ns/op	698.97 MB/s
BenchmarkReadMemStats-4 BenchmarkWriteBarrier-4 BenchmarkBulkWriteBarrier-4 BenchmarkScanStackNoLocals-4 BenchmarkHash5-4 BenchmarkHash16-4 BenchmarkHash64-4	50000 20000000 50000000 10 50000000 100000000 50000000	42818 ns/op 26260 ns/op 59.5 ns/op 30.4 ns/op 161375576 ns/op 24.4 ns/op 22.9 ns/op 36.2 ns/op	698.97 MB/s 1766.78 MB/s
BenchmarkReadMemStats-4 BenchmarkWriteBarrier-4 BenchmarkBulkWriteBarrier-4 BenchmarkScanStackNoLocals-4 BenchmarkHash5-4 BenchmarkHash16-4 BenchmarkHash16-4 BenchmarkHash164-4 BenchmarkHash1024-4	50000 20000000 50000000 10 50000000 100000000 50000000	42818 ns/op 26260 ns/op 59.5 ns/op 30.4 ns/op 161375576 ns/op 24.4 ns/op 22.9 ns/op 36.2 ns/op 144 ns/op	698.97 MB/s 1766.78 MB/s 7062.29 MB/s
BenchmarkReadMemStats-4 BenchmarkWriteBarrier-4 BenchmarkBulkWriteBarrier-4 BenchmarkScanStackNoLocals-4 BenchmarkHash5-4 BenchmarkHash16-4 BenchmarkHash64-4 BenchmarkHash1024-4 BenchmarkHash10536-4	50000 20000000 50000000 10 5000000 10000000 5000000 10000000 200000	42818 ns/op 26260 ns/op 59.5 ns/op 30.4 ns/op 161375576 ns/op 24.4 ns/op 22.9 ns/op 36.2 ns/op 144 ns/op 7637 ns/op	698.97 MB/s 1766.78 MB/s
BenchmarkReadMemStats-4 BenchmarkWriteBarrier-4 BenchmarkBulkWriteBarrier-4 BenchmarkScanStackNoLocals-4 BenchmarkHash5-4 BenchmarkHash16-4 BenchmarkHash10-4 BenchmarkHash10-24-4 BenchmarkHash65536-4 BenchmarkHash65536-4	50000 20000000 50000000 10 50000000 100000000 50000000 10000000 200000000	42818 ns/op 26260 ns/op 59.5 ns/op 30.4 ns/op 161375576 ns/op 24.4 ns/op 22.9 ns/op 36.2 ns/op 144 ns/op 7637 ns/op 7.74 ns/op	698.97 MB/s 1766.78 MB/s 7062.29 MB/s
BenchmarkReadMemStats-4 BenchmarkWriteBarrier-4 BenchmarkBulkWriteBarrier-4 BenchmarkScanStackNoLocals-4 BenchmarkHash5-4 BenchmarkHash16-4 BenchmarkHash64-4 BenchmarkHash1024-4 BenchmarkHash10536-4	50000 20000000 50000000 10 5000000 10000000 5000000 10000000 200000	42818 ns/op 26260 ns/op 59.5 ns/op 30.4 ns/op 161375576 ns/op 24.4 ns/op 22.9 ns/op 36.2 ns/op 144 ns/op 7637 ns/op	698.97 MB/s 1766.78 MB/s 7062.29 MB/s
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BenchmarkReadMemStats-4 BenchmarkWriteBarrier-4 BenchmarkScanStackNoLocals-4 BenchmarkHash5-4 BenchmarkHash16-4 BenchmarkHash64-4 BenchmarkHash1024-4 BenchmarkHash6536-4 BenchmarkHash6536-4 BenchmarkHash654-4 BenchmarkHash654-4 BenchmarkHash6554-4 BenchmarkHash6554-4 BenchmarkHash654-4 BenchmarkHash6554-4	50000 20000000 50000000 10 50000000 10000000 5000000 200000 20000000 200000000	42818 ns/op 26260 ns/op 59.5 ns/op 30.4 ns/op 161375576 ns/op 24.4 ns/op 22.9 ns/op 36.2 ns/op 144 ns/op 7637 ns/op 7.74 ns/op 7.72 ns/op 3.51 ns/op	698.97 MB/s 1766.78 MB/s 7062.29 MB/s
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BenchmarkReadMemStats-4 BenchmarkWriteBarrier-4 BenchmarkBulkWriteBarrier-4 BenchmarkScanStackNoLocals-4 BenchmarkHash5-4 BenchmarkHash16-4 BenchmarkHash10-24-4 BenchmarkHash1024-4 BenchmarkHash1024-4 BenchmarkHash1024-4 BenchmarkUnalignedLoad-4 BenchmarkUnalignedLoad-4 BenchmarkEgEfaceConcrete-4 BenchmarkEgIfaceConcrete-4 BenchmarkNeEfaceConcrete-4 BenchmarkNeIfaceConcrete-4	50000 20000000 50000000 10 50000000 100000000 50000000 20000000 200000000 500000000	42818 ns/op 26260 ns/op 59.5 ns/op 30.4 ns/op 161375576 ns/op 24.4 ns/op 22.9 ns/op 36.2 ns/op 144 ns/op 7637 ns/op 7.72 ns/op 3.51 ns/op 3.51 ns/op 3.51 ns/op 3.86 ns/op 10.9 ns/op	698.97 MB/s 1766.78 MB/s 7062.29 MB/s
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BenchmarkReadMemStats-4 BenchmarkBulkWriteBarrier-4 BenchmarkScanStackNoLocals-4 BenchmarkHash5-4 BenchmarkHash6-4 BenchmarkHash6-4 BenchmarkHash64-4 BenchmarkHash65536-4 BenchmarkHash65536-4 BenchmarkRalignedLoad-4 BenchmarkReafaceConcrete-4 BenchmarkRefaceConcrete-4 BenchmarkNefaceConcrete-4 BenchmarkConvT2ESmall-4 BenchmarkConvT2ESmall-4 BenchmarkConvT2EUintptr-4 BenchmarkConvT2ILiarge-4 BenchmarkConvT2ILiarge-4 BenchmarkConvT2ILiarge-4 BenchmarkConvT2ILiarge-4 BenchmarkConvT2ILiarge-4 BenchmarkConvT2ILiarge-4 BenchmarkConvT2ILiarge-4 BenchmarkConvT2ILiarge-4 BenchmarkConvI2I-4 BenchmarkAssertE2I-4 BenchmarkAssertE2I-4 BenchmarkAssertE2I-4 BenchmarkAssertI2I-4	50000 2000000 10 5000000 10 5000000 10 5000000 2000000 2000000 50000000 50000000 50000000 10000000 10000000 20000000 20000000 50000000 20000000 50000000 20000000 20000000 20000000 30000000 30000000 30000000 3000000	42818 ns/op 26260 ns/op 59.5 ns/op 30.4 ns/op 161375576 ns/op 24.4 ns/op 22.9 ns/op 36.2 ns/op 144 ns/op 7637 ns/op 7.74 ns/op 7.72 ns/op 3.51 ns/op 3.86 ns/op 3.51 ns/op 10.9 ns/op 10.7 ns/op 11.0 ns/op 11.0 ns/op 11.1 ns/op 5.43 ns/op 5.43 ns/op 3.79 ns/op 3.79 ns/op 7.13 ns/op 3.75 ns/op 3.79 ns/op 4.91 ns/op	698.97 MB/s 1766.78 MB/s 7062.29 MB/s
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BenchmarkReadMemStats-4 BenchmarkBulkWriteBarrier-4 BenchmarkBulkWriteBarrier-4 BenchmarkScanStackNoLocals-4 BenchmarkHash5-4 BenchmarkHash6-4 BenchmarkHash6-4 BenchmarkHash65536-4 BenchmarkHash65536-4 BenchmarkHash65536-4 BenchmarkDalignedLoad-4 BenchmarkDunalignedLoad-4 BenchmarkEqIfaceConcrete-4 BenchmarkNeffaceConcrete-4 BenchmarkConvT2ESmall-4 BenchmarkConvT2EUnitptr-4 BenchmarkConvT2EUritptr-4 BenchmarkConvT2ILarge-4 BenchmarkConvT2ILarge-4 BenchmarkConvT2ILarge-4 BenchmarkConvT2ILarge-4 BenchmarkConvI2I-4 BenchmarkAssertE2T-4 BenchmarkAssertE2T-4 BenchmarkAssertE2T-4 BenchmarkAssertE2T-4 BenchmarkAssertI2I-4 BenchmarkAssertE2T-4 BenchmarkAssertI2E-4 BenchmarkAssertE2E-4 BenchmarkAssertE2E-4 BenchmarkAssertE2E-4 BenchmarkAssertE2E-4 BenchmarkAssertE2E-4 BenchmarkAssertE2E-4 BenchmarkAssertE2E-4 BenchmarkAssertE2E-4 BenchmarkAssertE2ED-4	50000 20000000 10 50000000 10 50000000 10 50000000 20000000 20000000 50000000 50000000 10000000 10000000 20000000 30000000 30000000 30000000 3000000	42818 ns/op 26260 ns/op 59.5 ns/op 30.4 ns/op 161375576 ns/op 24.4 ns/op 22.9 ns/op 36.2 ns/op 144 ns/op 7637 ns/op 7.74 ns/op 7.74 ns/op 3.86 ns/op 3.51 ns/op 3.86 ns/op 3.51 ns/op 10.9 ns/op 10.7 ns/op 11.0 ns/op 11.0 ns/op 12.5 ns/op 3.79 ns/op 52.5 ns/op 3.79 ns/op 7.13 ns/op 53.3 ns/op 53.79 ns/op 54.0 ns/op 54.0 ns/op 53.88 ns/op 4.91 ns/op 6.67 ns/op 3.04 ns/op 6.32 ns/op 3.04 ns/op 6.32 ns/op 3.04 ns/op	698.97 MB/s 1766.78 MB/s 7062.29 MB/s
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December 1 Const HORons / / CA A	10000000	10 5 /-
BenchmarkConvT2Ezero/zero/64-4	100000000	10.5 ns/op
BenchmarkConvT2Ezero/zero/str-4	100000000	11.9 ns/op
BenchmarkConvT2Ezero/zero/slice-4	100000000	12.8 ns/op
BenchmarkConvT2Ezero/zero/big-4	2000000	715 ns/op
BenchmarkConvT2Ezero/nonzero/16-4	30000000	52.6 ns/op
BenchmarkConvT2Ezero/nonzero/32-4	20000000	61.4 ns/op
BenchmarkConvT2Ezero/nonzero/64-4	20000000	73.1 ns/op
BenchmarkConvT2Ezero/nonzero/str-4	10000000	128 ns/op
BenchmarkConvT2Ezero/nonzero/slice-4	10000000	160 ns/op
BenchmarkConvT2Ezero/nonzero/big-4	2000000	722 ns/op
BenchmarkMalloc8-4	20000000	67.4 ns/op
BenchmarkMalloc16-4	20000000	102 ns/op
BenchmarkMallocTypeInfo8-4	20000000	99.4 ns/op
BenchmarkMallocTypeInfo16-4	20000000	119 ns/op
BenchmarkMallocLargeStruct-4	1000000	1034 ns/op
BenchmarkGoroutineSelect-4	200	5243015 ns/op
BenchmarkGoroutineBlocking-4	200	6219647 ns/op
BenchmarkGoroutineForRange-4	200	6146714 ns/op
-		
BenchmarkGoroutineIdle-4	500	2738542 ns/op
BenchmarkHashStringSpeed-4	20000000	75.0 ns/op
BenchmarkHashBytesSpeed-4	20000000	123 ns/op
BenchmarkHashInt32Speed-4	30000000	64.2 ns/op
BenchmarkHashInt64Speed-4	20000000	56.2 ns/op
BenchmarkHashStringArraySpeed-4	10000000	175 ns/op
BenchmarkMegMap-4	30000000	51.4 ns/op
BenchmarkMegOneMap-4	100000000	21.8 ns/op
BenchmarkMegEqMap-4	5000	378562 ns/op
BenchmarkMegEmptyMap-4	200000000	9.83 ns/op
BenchmarkSmallStrMap-4	30000000	53.3 ns/op
BenchmarkMapStringKeysEight 16-4	30000000	48.8 ns/op
BenchmarkMapStringKeysEight 32-4	30000000	47.0 ns/op
BenchmarkMapStringKeysEight 64-4	30000000	47.0 ns/op
_		
BenchmarkMapStringKeysEight_1M-4	30000000	47.3 ns/op
BenchmarkIntMap-4	30000000	47.9 ns/op
BenchmarkMapFirst/1-4	100000000	15.4 ns/op
BenchmarkMapFirst/2-4	100000000	15.6 ns/op
BenchmarkMapFirst/3-4	100000000	15.6 ns/op
BenchmarkMapFirst/4-4	100000000	15.6 ns/op
BenchmarkMapFirst/5-4	100000000	15.6 ns/op
BenchmarkMapFirst/6-4	100000000	15.4 ns/op
BenchmarkMapFirst/7-4	100000000	15.6 ns/op
BenchmarkMapFirst/8-4	100000000	15.4 ns/op
BenchmarkMapFirst/9-4	50000000	35.2 ns/op
BenchmarkMapFirst/10-4	50000000	35.4 ns/op
BenchmarkMapFirst/11-4	50000000	35.1 ns/op
BenchmarkMapFirst/12-4	50000000	35.1 ns/op
BenchmarkMapFirst/13-4	50000000	35.1 ns/op
BenchmarkMapFirst/14-4	50000000	35.1 ns/op
BenchmarkMapFirst/15-4	50000000	35.1 ns/op
BenchmarkMapFirst/16-4	50000000	35.1 ns/op
BenchmarkMapMid/1-4	100000000	16.1 ns/op
BenchmarkMapMid/2-4	100000000	19.0 ns/op
BenchmarkMapMid/3-4	100000000	19.1 ns/op
BenchmarkMapMid/4-4	100000000	21.3 ns/op
BenchmarkMapMid/5-4	100000000	21.1 ns/op
BenchmarkMapMid/6-4	100000000	23.2 ns/op
BenchmarkMapMid/7-4	100000000	23.2 ns/op
BenchmarkMapMid/8-4	50000000	25.6 ns/op
BenchmarkMapMid/9-4	30000000	40.0 ns/op
BenchmarkMapMid/10-4	30000000	55.1 ns/op
BenchmarkMapMid/11-4	30000000	46.0 ns/op
BenchmarkMapMid/12-4	30000000	46.0 ns/op
BenchmarkMapMid/13-4	30000000	46.0 ns/op
BenchmarkMapMid/14-4	50000000	46.0 ns/op
BenchmarkMapMid/15-4	30000000	40.0 ns/op
BenchmarkMapMid/16-4	50000000	46.4 ns/op
BenchmarkMapLast/1-4	100000000	16.1 ns/op
BenchmarkMapLast/2-4	100000000	19.0 ns/op
BenchmarkMapLast/3-4	100000000	21.1 ns/op
BenchmarkMapLast/4-4	50000000	23.2 ns/op
BenchmarkMapLast/5-4	50000000	25.3 ns/op
BenchmarkMapLast/6-4	50000000	27.4 ns/op
BenchmarkMapLast/7-4	50000000	29.6 ns/op
BenchmarkMapLast/8-4	30000000	47.4 ns/op
BenchmarkMapLast/9-4	30000000	52.1 ns/op
BenchmarkMapLast/10-4	30000000	56.8 ns/op
BenchmarkMapLast/11-4	30000000	56.9 ns/op
BenchmarkMapLast/12-4	30000000	55.6 ns/op

- 1 1 /40 4		55.0 /			
BenchmarkMapLast/13-4	20000000	55.1 ns/op			
BenchmarkMapLast/14-4	20000000	51.9 ns/op			
BenchmarkMapLast/15-4	30000000	48.4 ns/op			
BenchmarkMapLast/16-4	30000000	48.4 ns/op			
BenchmarkMapCycle-4	20000000	80.9 ns/op			
BenchmarkRepeatedLookupStrMapKey32-4	20000000	76.9 ns/op			
BenchmarkRepeatedLookupStrMapKey1M-4	5000	241809 ns/op			
BenchmarkMakeMap/[Byte]Byte-4	5000000	378 ns/op			
BenchmarkMakeMap/[Int]Int-4	3000000	586 ns/op			
BenchmarkNewEmptyMap-4	50000000	25.3 ns/op	0 B/op	0 allocs/op	
BenchmarkNewSmallMap-4	10000000	152 ns/op	0 B/op	0 allocs/op	
BenchmarkMapIter-4	5000000	323 ns/op	0 2, op	0 d11000/op	
BenchmarkMapIterEmpty-4	100000000	22.5 ns/op			
BenchmarkSameLengthMap-4	100000000	18.3 ns/op			
BenchmarkBigKeyMap-4	20000000	95.4 ns/op			
BenchmarkBigValMap-4	20000000	95.5 ns/op			
BenchmarkSmallKeyMap-4	20000000	66.7 ns/op			
BenchmarkMapPopulate/1-4	20000000	83.6 ns/op	0 B/op	0 allocs/op	
BenchmarkMapPopulate/10-4	1000000	1953 ns/op	179 B/op	1 allocs/op	
BenchmarkMapPopulate/100-4	50000	25432 ns/op	3252 B/op	15 allocs/op	
BenchmarkMapPopulate/1000-4	5000	279914 ns/op	49383 B/op	19 allocs/op	
BenchmarkMapPopulate/10000-4	500	2723038 ns/op	412217 B/op	163 allocs/op	
BenchmarkMapPopulate/100000-4	50	28713410 ns/op	3588881 B/op	3733 allocs/op	
BenchmarkComplexAlgMap-4	10000000	214 ns/op			
BenchmarkGoMapClear/Reflexive/1-4	20000000	112 ns/op			
BenchmarkGoMapClear/Reflexive/10-4	10000000	123 ns/op			
BenchmarkGoMapClear/Reflexive/10-4 BenchmarkGoMapClear/Reflexive/100-4		123 ns/op 304 ns/op			
	5000000				
BenchmarkGoMapClear/Reflexive/1000-4	300000	3735 ns/op			
BenchmarkGoMapClear/Reflexive/10000-4	50000	34074 ns/op			
BenchmarkGoMapClear/NonReflexive/1-4	5000000	379 ns/op			
BenchmarkGoMapClear/NonReflexive/10-4	3000000	480 ns/op			
BenchmarkGoMapClear/NonReflexive/100-4	1000000	1183 ns/op			
BenchmarkGoMapClear/NonReflexive/1000-4	100000	13549 ns/op			
BenchmarkGoMapClear/NonReflexive/10000-4	10000	117289 ns/op			
BenchmarkMapStringConversion/32/simple-4	30000000	41.9 ns/op	0 B/op	0 allocs/op	
BenchmarkMapStringConversion/32/struct-4	3000000	41.9 ns/op	0 B/op	0 allocs/op	
BenchmarkMapStringConversion/32/array-4	3000000	41.8 ns/op	0 B/op	0 allocs/op	
BenchmarkMapStringConversion/64/simple-4	3000000	46.3 ns/op	0 B/op	0 allocs/op	
BenchmarkMapStringConversion/64/struct-4	3000000	46.3 ns/op	0 B/op	0 allocs/op	
BenchmarkMapStringConversion/64/array-4	30000000	46.3 ns/op	0 B/op	0 allocs/op	
			0 Б/ОР	0 d11003/0p	
BenchmarkMapPop100-4	50000	36575 ns/op			
BenchmarkMapPop1000-4	3000	511995 ns/op			
BenchmarkMapPop10000-4	100	12112237 ns/op			
BenchmarkMapAssign/Int32/256-4	20000000	66.0 ns/op			
BenchmarkMapAssign/Int32/65536-4	20000000	90.2 ns/op			
BenchmarkMapAssign/Int64/256-4	20000000	66.0 ns/op			
BenchmarkMapAssign/Int64/65536-4	10000000	115 ns/op			
BenchmarkMapAssign/Str/256-4	20000000	79.9 ns/op			
BenchmarkMapAssign/Str/65536-4	10000000	186 ns/op			
BenchmarkMapOperatorAssign/Int32/256-4	20000000	66.2 ns/op			
BenchmarkMapOperatorAssign/Int32/65536-4	20000000	95.3 ns/op			
BenchmarkMapOperatorAssign/Int64/256-4	20000000	66.7 ns/op			
BenchmarkMapOperatorAssign/Int64/65536-4	10000000	138 ns/op			
BenchmarkMapOperatorAssign/Str/256-4	1000000	5035 ns/op			
BenchmarkMapOperatorAssign/Str/65536-4	3000000	682 ns/op	42 5/	0 -11/	
BenchmarkMapAppendAssign/Int32/256-4	20000000	96.4 ns/op	47 B/op	0 allocs/op	
		/			
BenchmarkMapAppendAssign/Int32/65536-4	5000000	275 ns/op	28 B/op	0 allocs/op	
BenchmarkMapAppendAssign/Int64/256-4	2000000	95.7 ns/op	47 B/op	0 allocs/op	
BenchmarkMapAppendAssign/Int64/256-4 BenchmarkMapAppendAssign/Int64/65536-4	20000000 5000000	95.7 ns/op 293 ns/op	47 B/op 28 B/op	0 allocs/op 0 allocs/op	
BenchmarkMapAppendAssign/Int64/256-4	2000000	95.7 ns/op	47 B/op	0 allocs/op	
BenchmarkMapAppendAssign/Int64/256-4 BenchmarkMapAppendAssign/Int64/65536-4	20000000 5000000	95.7 ns/op 293 ns/op	47 B/op 28 B/op	0 allocs/op 0 allocs/op	
BenchmarkMapAppendAssign/Int64/256-4 BenchmarkMapAppendAssign/Int64/65536-4 BenchmarkMapAppendAssign/Str/256-4	20000000 5000000 10000000	95.7 ns/op 293 ns/op 318 ns/op	47 B/op 28 B/op 93 B/op	0 allocs/op 0 allocs/op 0 allocs/op	
BenchmarkMapAppendAssign/Int64/256-4 BenchmarkMapAppendAssign/Int64/65536-4 BenchmarkMapAppendAssign/Str/256-4 BenchmarkMapAppendAssign/Str/65536-4	20000000 5000000 10000000 3000000	95.7 ns/op 293 ns/op 318 ns/op 465 ns/op	47 B/op 28 B/op 93 B/op	0 allocs/op 0 allocs/op 0 allocs/op	
BenchmarkMapAppendAssign/Int64/256-4 BenchmarkMapAppendAssign/Int64/65536-4 BenchmarkMapAppendAssign/Str/256-4 BenchmarkMapAppendAssign/Str/65536-4 BenchmarkMapAppelete/Int32/100-4	20000000 5000000 10000000 3000000 20000000	95.7 ns/op 293 ns/op 318 ns/op 465 ns/op 104 ns/op	47 B/op 28 B/op 93 B/op	0 allocs/op 0 allocs/op 0 allocs/op	
BenchmarkMapAppendAssign/Int64/256-4 BenchmarkMapAppendAssign/Int64/65536-4 BenchmarkMapAppendAssign/Str/256-4 BenchmarkMapAppendAssign/Str/65536-4 BenchmarkMapAplelete/Int32/100-4 BenchmarkMapDelete/Int32/1000-4	20000000 5000000 10000000 3000000 20000000	95.7 ns/op 293 ns/op 318 ns/op 465 ns/op 104 ns/op 77.8 ns/op	47 B/op 28 B/op 93 B/op	0 allocs/op 0 allocs/op 0 allocs/op	
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Benchant Motemore / 10-4 100000000	BenchmarkMemmove/8-4	100000000		600.00 MB/s
	BenchmarkMemmove/9-4	100000000	13.4 ns/op	673.43 MB/s
	BenchmarkMemmove/10-4	100000000	13.3 ns/op	750.14 MB/s
Benchmax Memorwey/13-4 100000000	BenchmarkMemmove/11-4	10000000	13.3 ns/op	824.91 MB/s
	BenchmarkMemmove/12-4	10000000	13.3 ns/op	899.90 MB/s
Benchman tNemmore/13-4 100000000	BenchmarkMemmove/13-4	10000000	13.5 ns/op	962.98 MB/s
Benchmar McMemore/15-4 100000000	BenchmarkMemmove/14-4	10000000	13.4 ns/op	1046.19 MB/s
Benchman tNommove/18-4 100000000	BenchmarkMemmove/15-4		=	1124.88 MB/s
Benchmark Memmove / 18-4 100000000	BenchmarkMemmove/16-4	10000000		1188.13 MB/s
Benchmar Idlemmore/128-4 10000000 16.3 na/op 3924.55 Ma/s				
BenchmarkMemmore/1324-4 5000000 23.9 ns/op 334, 10 Ms/s				
BenchmarkMemmore/1512-4 2000000				
BenchmarkNemmove/1021-4 2000000			=	
Benchmar Memmove/1018-4				
Benchmar Memmove/4086-4				
BenchmarkMemmoveUnalignedDat/0-4				
BenchmarkMemnoveUnalignedDst/0-4 10000000 15.4 ns/op 64.75 Mb/s				
BenchmarkMemmoveUmalignedDmt/1-4				10668.94 MB/S
BenchmarkMemmoveUnalignedDst/3-4 10000000				
BenchmarkMemmoveUnalignedDat/3-4 10000000			=	
BenchmarkMemmoveUnalignedDat/5-4 10000000	BenchmarkMemmoveUnalignedDst/2-4	10000000		142.50 MB/s
BenchmarkNemmoveUnalignedDats/5-4 10000000 14.9 na/op 335.55 MB/s BenchmarkNemmoveUnalignedDats/6-4 100000000 14.7 na/op 467.71 MB/s BenchmarkNemmoveUnalignedDats/8-4 100000000 14.9 na/op 468.79 MB/s BenchmarkNemmoveUnalignedDats/9-4 100000000 14.5 na/op 550.56 MB/s BenchmarkNemmoveUnalignedDats/9-4 100000000 15.0 na/op 668.48 MB/s BenchmarkNemmoveUnalignedDats/10-4 100000000 15.0 na/op 668.48 MB/s BenchmarkNemmoveUnalignedDats/12-4 100000000 15.1 na/op 744.55 MB/s BenchmarkNemmoveUnalignedDats/13-4 100000000 15.0 na/op 866.28 MB/s BenchmarkNemmoveUnalignedDats/13-4 100000000 15.0 na/op 866.28 MB/s BenchmarkNemmoveUnalignedDats/13-4 100000000 15.0 na/op 866.28 MB/s BenchmarkNemmoveUnalignedDats/14-4 100000000 15.0 na/op 366.28 MB/s BenchmarkNemmoveUnalignedDats/14-4 100000000 15.0 na/op 1000.38 MB/s BenchmarkNemmoveUnalignedDats/16-4 10000000 15.0 na/op 1000.38 MB/s BenchmarkNemmoveUnalignedDats/16-4 10000000 16.7 na/op 121.17 MB/s BenchmarkNemmoveUnalignedDats/18-4 5000000 32.1 na/op 563.0 MB/s BenchmarkNemmoveUnalignedDats/18-4 5000000 32.1 na/op 563.0 MB/s BenchmarkNemmoveUnalignedDats/18-4 5000000 32.1 na/op 563.0 MB/s BenchmarkNemmoveUnalignedDats/18-4 10000000 34.9 na/op 669.49 MB/s BenchmarkNemmoveUnalignedDats/18-4 10000000 36.0 na/op 566.1 MB/s BenchmarkNemmoveUnalignedDats/18-4 10000000 36.0 na/op 7059.63 MB/s BenchmarkNemmoveUnalignedDats/18-4 10000000 15.6 na/op 676.1 MB/s BenchmarkNemmoveUnalignedDats/18-4 10000000 16.7 na/op 368.41 MB/s BenchmarkNemmoveUnalignedDats/18-4 10000000 16.7 na/op 369.63 MB/s BenchmarkNemmoveUn	BenchmarkMemmoveUnalignedDst/3-4	10000000	14.0 ns/op	213.78 MB/s
BenchmarkMemmoveUnalignedDat/1-4 10000000	BenchmarkMemmoveUnalignedDst/4-4	10000000	14.5 ns/op	275.50 MB/s
BenchmarkMemmoveUnalignedDat/7-4 10000000	BenchmarkMemmoveUnalignedDst/5-4		14.9 ns/op	335.56 MB/s
BenchmarkMemmoveUnalignedDat/8-4 10000000 14.5 ns/op 550.56 MB/s BenchmarkMemmoveUnalignedDat/10-4 10000000 15.0 ns/op 651.60 MB/s BenchmarkMemmoveUnalignedDat/10-4 10000000 15.0 ns/op 668.48 MB/s BenchmarkMemmoveUnalignedDat/12-4 10000000 15.1 ns/op 744.55 MB/s BenchmarkMemmoveUnalignedDat/12-4 10000000 15.0 ns/op 866.28 MB/s BenchmarkMemmoveUnalignedDat/12-4 10000000 15.0 ns/op 866.28 MB/s BenchmarkMemmoveUnalignedDat/13-4 10000000 15.0 ns/op 942.03 MB/s BenchmarkMemmoveUnalignedDat/16-4 10000000 15.0 ns/op 100.88 MB/s BenchmarkMemmoveUnalignedDat/16-4 10000000 14.5 ns/op 100.88 MB/s BenchmarkMemmoveUnalignedDat/32-4 10000000 16.7 ns/op 100.88 MB/s BenchmarkMemmoveUnalignedDat/32-4 5000000 16.7 ns/op 1954.46 MB/s BenchmarkMemmoveUnalignedDat/32-4 5000000 28.1 ns/op 4560.37 MB/s BenchmarkMemmoveUnalignedDat/26-4 5000000 28.1 ns/op 562.47 MB/s BenchmarkMemmoveUnalignedDat/26-4 3000000 47.7 ns/op 5364.41 MB/s BenchmarkMemmoveUnalignedDat/26-4 3000000 36.7 ns/op 7095.63 MB/s BenchmarkMemmoveUnalignedDat/26-4 3000000 37.0 ns/op 7095.63 MB/s BenchmarkMemmoveUnalignedDat/26-4 3000000 38.9 ns/op 7095.63 MB/s BenchmarkMemmoveUnalignedDat/26-4 3000000 39.0 ns/op 7095.63 MB/s BenchmarkMemmoveUnalignedDat/26-4 3000000 31.6 ns/op 6622.49 MB/s BenchmarkMemmoveUnalignedDat/26-4 10000000 15.6 ns/op 641.2 MB/s BenchmarkMemmoveUnalignedDat/26-4 10000000 13.9 ns/op 7395.63 MB/s BenchmarkMemmoveUnalignedSat/0-4 10000000 13.9 ns/op 7395.83 MB/s BenchmarkMemmoveUnalignedSat/0-4 10000000 13.9 ns/op 641.2 MB/s BenchmarkMemmoveUnalignedSat/0-4 10000000 14.0 ns/op 643.05 MB/s BenchmarkMemmoveUnalignedSat/0-4 10000000 13.9 ns/op 649.23 MB/s BenchmarkMemmoveUnalignedSat/0-4 10000000 14.0 ns/op 936.39 MB/s BenchmarkMemmoveUnalignedSat/0-4 10000000 14.0 ns/op 649.59 MB/s BenchmarkMemmoveUnalignedSat/0-4 10000000 14.0 ns/	BenchmarkMemmoveUnalignedDst/6-4	100000000	14.7 ns/op	407.71 MB/s
BenchmarkMemmoveUnalignedDat/10-4 100000000 14.7 na/op	BenchmarkMemmoveUnalignedDst/7-4	10000000	14.9 ns/op	468.79 MB/s
BenchmarkMemmoveUnalignedDst/10-4 10000000 15.0 ns/op 668.48 MB/s	BenchmarkMemmoveUnalignedDst/8-4	10000000	14.5 ns/op	550.56 MB/s
BenchmarkMemmoveUnalignedDst/10-4 10000000 15.0 ns/op 668.48 MB/s			=	611.60 MB/s
BenchmarkMemmoveUnalignedDst/11-4 100000000 14.8 ns/op				668.48 MB/s
BenchmarkMemmoveUnalignedDst/12-4 10000000				
BenchmarkMemmoveUnalignedDst/13-4 100000000 15.0 ns/op 866.28 MB/s BenchmarkMemmoveUnalignedDst/14-4 100000000 14.9 ns/op 942.03 MB/s BenchmarkMemmoveUnalignedDst/16-4 100000000 14.5 ns/op 1103.84 MB/s BenchmarkMemmoveUnalignedDst/16-4 100000000 16.7 ns/op 1921.87 MB/s BenchmarkMemmoveUnalignedDst/64-4 50000000 32.7 ns/op 1921.87 MB/s BenchmarkMemmoveUnalignedDst/128-4 50000000 28.1 ns/op 4560.37 MB/s BenchmarkMemmoveUnalignedDst/128-4 50000000 34.7 ns/op 5364.41 MB/s BenchmarkMemmoveUnalignedDst/128-4 20000000 34.9 ns/op 5364.41 MB/s BenchmarkMemmoveUnalignedDst/128-4 20000000 34.9 ns/op 5362.17 MB/s BenchmarkMemmoveUnalignedDst/1024-4 10000000 15.6 ns/op 6552.17 MB/s BenchmarkMemmoveUnalignedDst/1024-4 10000000 15.6 ns/op 6552.17 MB/s BenchmarkMemmoveUnalignedDst/2088-4 3000000 390 ns/op 7059.637 MB/s BenchmarkMemmoveUnalignedDst/4096-4 3000000 300000 561 ns/op 7296.37 MB/s BenchmarkMemmoveUnalignedSsc/0-4 10000000 10.5 ns/op 46.12 MB/s BenchmarkMemmoveUnalignedSsc/3-4 10000000 10.5 ns/op 46.12 MB/s BenchmarkMemmoveUnalignedSsc/3-4 10000000 10.5 ns/op 14.2 ns/op 211.08 MB/s BenchmarkMemmoveUnalignedSsc/3-4 10000000 14.2 ns/op 211.08 MB/s BenchmarkMemmoveUnalignedSsc/6-4 10000000 13.9 ns/op 367.36 MB/s BenchmarkMemmoveUnalignedSsc/6-4 10000000 13.9 ns/op 367.36 MB/s BenchmarkMemmoveUnalignedSsc/7-4 10000000 13.8 ns/op 367.36 MB/s BenchmarkMemmoveUnalignedSsc/14-4 10000000 14.0 ns/op 930.87 MB/s BenchmarkMemmoveUnalignedSsc/14-4 10000000 14.0 ns/op 930.87 MB/s BenchmarkMemmo				
BenchmarkMemmoveUnalignedDst/14-4				
BenchmarkMemmoveUnalignedDst/15-4				
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BenchmarkMemmoveUnalignedSrc/32-4 100000000 15.4 ns/op 2072.73 MB/s BenchmarkMemmoveUnalignedSrc/64-4 100000000 18.5 ns/op 3450.95 MB/s BenchmarkMemmoveUnalignedSrc/128-4 50000000 25.6 ns/op 4996.57 MB/s BenchmarkMemmoveUnalignedSrc/512-4 50000000 37.9 ns/op 6754.79 MB/s BenchmarkMemmoveUnalignedSrc/512-4 20000000 74.0 ns/op 6919.73 MB/s BenchmarkMemmoveUnalignedSrc/1024-4 20000000 119 ns/op 8554.12 MB/s BenchmarkMemmoveUnalignedSrc/2048-4 10000000 206 ns/op 9940.15 MB/s BenchmarkMemmoveUnalignedSrc/4096-4 5000000 385 ns/op 10629.02 MB/s BenchmarkMemclr/5-4 100000000 14.7 ns/op 339.27 MB/s BenchmarkMemclr/64-4 100000000 14.9 ns/op 107.74 MB/s BenchmarkMemclr/64-4 100000000 20.0 ns/op 3192.24 MB/s BenchmarkMemclr/256-4 5000000 34.7 ns/op 7373.17 MB/s BenchmarkMemclr/4096-4 5000000 288 ns/op 14199.71 MB/s	BenchmarkMemmoveUnalignedSrc/16-4	100000000	14.0 ns/op	1141.96 MB/s
BenchmarkMemmoveUnalignedSrc/64-4 100000000 18.5 ns/op 3450.95 MB/s BenchmarkMemmoveUnalignedSrc/128-4 50000000 25.6 ns/op 4996.57 MB/s BenchmarkMemmoveUnalignedSrc/256-4 50000000 37.9 ns/op 6754.79 MB/s BenchmarkMemmoveUnalignedSrc/512-4 20000000 74.0 ns/op 6919.73 MB/s BenchmarkMemmoveUnalignedSrc/1024-4 20000000 119 ns/op 8554.12 MB/s BenchmarkMemmoveUnalignedSrc/2048-4 10000000 206 ns/op 9940.15 MB/s BenchmarkMemmoveUnalignedSrc/4096-4 5000000 385 ns/op 10629.02 MB/s BenchmarkMemclr/5-4 100000000 14.7 ns/op 339.27 MB/s BenchmarkMemclr/6-4 100000000 14.9 ns/op 1075.74 MB/s BenchmarkMemclr/64-4 100000000 20.0 ns/op 3192.24 MB/s BenchmarkMemclr/256-4 5000000 34.7 ns/op 7373.17 MB/s BenchmarkMemclr/4096-4 5000000 288 ns/op 14199.71 MB/s				2072.73 MB/s
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BenchmarkMemclr/256-4 50000000 34.7 ns/op 7373.17 MB/s BenchmarkMemclr/4096-4 5000000 288 ns/op 14199.71 MB/s				1075.74 MB/s
BenchmarkMemclr/4096-4 5000000 288 ns/op 14199.71 MB/	BenchmarkMemclr/64-4	100000000	20.0 ns/op	3192.24 MB/s
-	BenchmarkMemclr/256-4	5000000	34.7 ns/op	7373.17 MB/s
BenchmarkMemclr/65536-4 200000 5920 ns/op 11069.74 MB/	BenchmarkMemclr/4096-4	5000000	288 ns/op	14199.71 MB/s
	BenchmarkMemclr/65536-4	200000	5920 ns/op	11069.74 MB/s
	BenchmarkMemclr/1M-4	10000		8761.04 MB/s
-				8513.73 MB/s
-				8573.99 MB/s
				8557.07 MB/s
				8537.55 MB/s
200 /000435 fie/op 6337.33 MB/S	Denominal Richelly Offi-4	200	.000433 118/Op	3337.33 MD/S

BenchmarkGoMemclr/5-4				
	200000000	8.66 ns/op	577.65 MB/s	
BenchmarkGoMemclr/16-4	200000000	7.03 ns/op	2277.18 MB/s	
BenchmarkGoMemclr/64-4	100000000	13.3 ns/op	4810.16 MB/s	
BenchmarkGoMemclr/256-4	50000000	31.5 ns/op	8122.27 MB/s	
BenchmarkClearFat8-4	2000000000	1.40 ns/op		
BenchmarkClearFat12-4	2000000000	1.40 ns/op		
BenchmarkClearFat16-4	2000000000	1.40 ns/op		
BenchmarkClearFat24-4	2000000000	1.40 ns/op		
BenchmarkClearFat32-4	2000000000	1.42 ns/op		
BenchmarkClearFat40-4	2000000000	1.40 ns/op		
BenchmarkClearFat48-4	2000000000	1.40 ns/op		
BenchmarkClearFat56-4 BenchmarkClearFat64-4	2000000000	1.40 ns/op 1.40 ns/op		
BenchmarkClearFat128-4	2000000000			
BenchmarkClearFat128-4 BenchmarkClearFat256-4	2000000000	1.40 ns/op		
BenchmarkClearFat512-4	2000000000	1.40 ns/op 1.40 ns/op		
BenchmarkClearFat1024-4	2000000000	1.42 ns/op		
BenchmarkCopyFat8-4	2000000000	1.40 ns/op		
BenchmarkCopyFat12-4	2000000000	1.40 ns/op		
BenchmarkCopyFat16-4	2000000000	1.40 ns/op		
BenchmarkCopyFat24-4	2000000000	1.40 ns/op		
BenchmarkCopyFat32-4	2000000000	1.40 ns/op		
BenchmarkCopyFat64-4	2000000000	1.40 ns/op		
BenchmarkCopyFat128-4	2000000000	1.42 ns/op		
BenchmarkCopyFat256-4	2000000000	1.41 ns/op		
BenchmarkCopyFat512-4	2000000000	1.40 ns/op		
BenchmarkCopyFat520-4	2000000000	1.40 ns/op		
BenchmarkCopyFat1024-4	2000000000	1.40 ns/op		
BenchmarkIssue18740-4	100000	14531 ns/op		
BenchmarkFinalizer-4	500	2526732 ns/op		
BenchmarkFinalizerRun-4	1000000	2604 ns/op		
BenchmarkSyscall-4	20000000	63.4 ns/op		
BenchmarkSyscallWork-4	20000000	96.9 ns/op		
BenchmarkSyscallExcess-4	20000000	63.4 ns/op		
BenchmarkSyscallExcessWork-4	20000000	96.8 ns/op		
BenchmarkPingPongHog-4	500000	2889 ns/op		
BenchmarkStackGrowth-4	100000000	21.2 ns/op		
BenchmarkStackGrowthDeep-4	500000	2548 ns/op		
BenchmarkCreateGoroutines-4	1000000	1046 ns/op		
BenchmarkCreateGoroutinesParallel-4	10000000	198 ns/op		
BenchmarkCreateGoroutinesCapture-4	200000	8941 ns/op	16 B/op 1 allocs/op	
		0341 112/Ob		
BenchmarkClosureCall-4	300000000	5.80 ns/op		
BenchmarkClosureCall-4 BenchmarkWakeupParallelSpinning/0s-4	300000000 100000			
		5.80 ns/op		
BenchmarkWakeupParallelSpinning/0s-4	100000	5.80 ns/op 20843 ns/op		
BenchmarkWakeupParallelSpinning/0s-4 BenchmarkWakeupParallelSpinning/1µs-4 BenchmarkWakeupParallelSpinning/2µs-4 BenchmarkWakeupParallelSpinning/5µs-4	100000 50000	5.80 ns/op 20843 ns/op 23993 ns/op		
BenchmarkWakeupParallelSpinning/0s-4 BenchmarkWakeupParallelSpinning/1µs-4 BenchmarkWakeupParallelSpinning/2µs-4	100000 50000 50000	5.80 ns/op 20843 ns/op 23993 ns/op 27880 ns/op		
BenchmarkWakeupParallelSpinning/0s-4 BenchmarkWakeupParallelSpinning/1µs-4 BenchmarkWakeupParallelSpinning/2µs-4 BenchmarkWakeupParallelSpinning/5µs-4 BenchmarkWakeupParallelSpinning/10µs-4 BenchmarkWakeupParallelSpinning/20µs-4	100000 50000 50000 50000	5.80 ns/op 20843 ns/op 23993 ns/op 27880 ns/op 37540 ns/op		
BenchmarkWakeupParallelSpinning/0s-4 BenchmarkWakeupParallelSpinning/1µs-4 BenchmarkWakeupParallelSpinning/2µs-4 BenchmarkWakeupParallelSpinning/5µs-4 BenchmarkWakeupParallelSpinning/10µs-4 BenchmarkWakeupParallelSpinning/50µs-4 BenchmarkWakeupParallelSpinning/50µs-4	100000 50000 50000 50000 30000	5.80 ns/op 20843 ns/op 23993 ns/op 27880 ns/op 37540 ns/op 56729 ns/op		
BenchmarkWakeupParallelSpinning/0s-4 BenchmarkWakeupParallelSpinning/1µs-4 BenchmarkWakeupParallelSpinning/2µs-4 BenchmarkWakeupParallelSpinning/5µs-4 BenchmarkWakeupParallelSpinning/10µs-4 BenchmarkWakeupParallelSpinning/20µs-4	100000 50000 50000 50000 30000 20000	5.80 ns/op 20843 ns/op 23993 ns/op 27880 ns/op 37540 ns/op 56729 ns/op 96465 ns/op		
BenchmarkWakeupParallelSpinning/0s-4 BenchmarkWakeupParallelSpinning/lus-4 BenchmarkWakeupParallelSpinning/2us-4 BenchmarkWakeupParallelSpinning/5µs-4 BenchmarkWakeupParallelSpinning/10µs-4 BenchmarkWakeupParallelSpinning/50µs-4 BenchmarkWakeupParallelSpinning/50µs-4 BenchmarkWakeupParallelSpinning/100µs-4 BenchmarkWakeupParallelSpinning/100µs-4	100000 50000 50000 50000 30000 20000 10000 5000	5.80 ns/op 20843 ns/op 23993 ns/op 27880 ns/op 37540 ns/op 56729 ns/op 96465 ns/op 221160 ns/op 359871 ns/op 321507 ns/op		
BenchmarkWakeupParallelSpinning/0s-4 BenchmarkWakeupParallelSpinning/lµs-4 BenchmarkWakeupParallelSpinning/2µs-4 BenchmarkWakeupParallelSpinning/5µs-4 BenchmarkWakeupParallelSpinning/10µs-4 BenchmarkWakeupParallelSpinning/20µs-4 BenchmarkWakeupParallelSpinning/50µs-4 BenchmarkWakeupParallelSpinning/100µs-4 BenchmarkWakeupParallelSpinning/100µs-4 BenchmarkWakeupParallelSyscall/0s-4 BenchmarkWakeupParallelSyscall/1µs-4	100000 50000 50000 50000 30000 20000 10000 5000	5.80 ns/op 20843 ns/op 23993 ns/op 27880 ns/op 37540 ns/op 56729 ns/op 96465 ns/op 221160 ns/op 359871 ns/op 321507 ns/op 335555 ns/op		
BenchmarkWakeupParallelSpinning/0s-4 BenchmarkWakeupParallelSpinning/lµs-4 BenchmarkWakeupParallelSpinning/2µs-4 BenchmarkWakeupParallelSpinning/5µs-4 BenchmarkWakeupParallelSpinning/10µs-4 BenchmarkWakeupParallelSpinning/20µs-4 BenchmarkWakeupParallelSpinning/50µs-4 BenchmarkWakeupParallelSpinning/100µs-4 BenchmarkWakeupParallelSpinning/100µs-4 BenchmarkWakeupParallelSpinning/100µs-4 BenchmarkWakeupParallelSyscall/1µs-4 BenchmarkWakeupParallelSyscall/1µs-4 BenchmarkWakeupParallelSyscall/1µs-4	100000 50000 50000 50000 30000 20000 10000 5000	5.80 ns/op 20843 ns/op 23993 ns/op 27880 ns/op 37540 ns/op 36655 ns/op 221160 ns/op 359871 ns/op 321507 ns/op 335555 ns/op 346055 ns/op		
BenchmarkWakeupParallelSpinning/0s-4 BenchmarkWakeupParallelSpinning/lµs-4 BenchmarkWakeupParallelSpinning/2µs-4 BenchmarkWakeupParallelSpinning/5µs-4 BenchmarkWakeupParallelSpinning/10µs-4 BenchmarkWakeupParallelSpinning/50µs-4 BenchmarkWakeupParallelSpinning/50µs-4 BenchmarkWakeupParallelSpinning/100µs-4 BenchmarkWakeupParallelSyscall/0s-4 BenchmarkWakeupParallelSyscall/1µs-4 BenchmarkWakeupParallelSyscall/1µs-4 BenchmarkWakeupParallelSyscall/2µs-4 BenchmarkWakeupParallelSyscall/2µs-4	100000 50000 50000 50000 30000 20000 10000 5000 10000 5000 5000 50	5.80 ns/op 20843 ns/op 23993 ns/op 27880 ns/op 27880 ns/op 37540 ns/op 56729 ns/op 96465 ns/op 221160 ns/op 359871 ns/op 321507 ns/op 335555 ns/op 346055 ns/op 343007 ns/op		
BenchmarkWakeupParallelSpinning/0s-4 BenchmarkWakeupParallelSpinning/lus-4 BenchmarkWakeupParallelSpinning/2µs-4 BenchmarkWakeupParallelSpinning/5µs-4 BenchmarkWakeupParallelSpinning/10µs-4 BenchmarkWakeupParallelSpinning/20µs-4 BenchmarkWakeupParallelSpinning/50µs-4 BenchmarkWakeupParallelSpinning/100µs-4 BenchmarkWakeupParallelSyscall/0s-4 BenchmarkWakeupParallelSyscall/1µs-4 BenchmarkWakeupParallelSyscall/1µs-4 BenchmarkWakeupParallelSyscall/2µs-4 BenchmarkWakeupParallelSyscall/5µs-4 BenchmarkWakeupParallelSyscall/10µs-4	100000 50000 50000 50000 30000 20000 10000 5000 5000 5000 5000 500	5.80 ns/op 20843 ns/op 23993 ns/op 27880 ns/op 27880 ns/op 37540 ns/op 96465 ns/op 96465 ns/op 221160 ns/op 359871 ns/op 321507 ns/op 335555 ns/op 346055 ns/op 343007 ns/op 386787 ns/op		
BenchmarkWakeupParallelSpinning/0s-4 BenchmarkWakeupParallelSpinning/1µs-4 BenchmarkWakeupParallelSpinning/2µs-4 BenchmarkWakeupParallelSpinning/5µs-4 BenchmarkWakeupParallelSpinning/10µs-4 BenchmarkWakeupParallelSpinning/50µs-4 BenchmarkWakeupParallelSpinning/100µs-4 BenchmarkWakeupParallelSpinning/100µs-4 BenchmarkWakeupParallelSyscall/0s-4 BenchmarkWakeupParallelSyscall/1µs-4 BenchmarkWakeupParallelSyscall/1µs-4 BenchmarkWakeupParallelSyscall/5µs-4 BenchmarkWakeupParallelSyscall/5µs-4 BenchmarkWakeupParallelSyscall/10µs-4 BenchmarkWakeupParallelSyscall/10µs-4 BenchmarkWakeupParallelSyscall/10µs-4 BenchmarkWakeupParallelSyscall/20µs-4	100000 50000 50000 50000 30000 20000 10000 5000 5000 5000 5000 500	5.80 ns/op 20843 ns/op 23993 ns/op 27880 ns/op 37540 ns/op 37540 ns/op 96465 ns/op 221160 ns/op 359871 ns/op 321507 ns/op 335555 ns/op 346055 ns/op 343007 ns/op 386787 ns/op 387292 ns/op		
BenchmarkWakeupParallelSpinning/0s-4 BenchmarkWakeupParallelSpinning/1µs-4 BenchmarkWakeupParallelSpinning/2µs-4 BenchmarkWakeupParallelSpinning/5µs-4 BenchmarkWakeupParallelSpinning/5µs-4 BenchmarkWakeupParallelSpinning/50µs-4 BenchmarkWakeupParallelSpinning/50µs-4 BenchmarkWakeupParallelSpinning/100µs-4 BenchmarkWakeupParallelSyscall/0s-4 BenchmarkWakeupParallelSyscall/1µs-4 BenchmarkWakeupParallelSyscall/2µs-4 BenchmarkWakeupParallelSyscall/5µs-4 BenchmarkWakeupParallelSyscall/10ys-4 BenchmarkWakeupParallelSyscall/10µs-4 BenchmarkWakeupParallelSyscall/10µs-4 BenchmarkWakeupParallelSyscall/10µs-4 BenchmarkWakeupParallelSyscall/10µs-4 BenchmarkWakeupParallelSyscall/50µs-4	100000 50000 50000 50000 30000 20000 10000 5000 10000 5000 5000 50	5.80 ns/op 20843 ns/op 23993 ns/op 27880 ns/op 37540 ns/op 37540 ns/op 96465 ns/op 221160 ns/op 359871 ns/op 321507 ns/op 335555 ns/op 346055 ns/op 343007 ns/op 386787 ns/op 387292 ns/op 556090 ns/op		
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BenchmarkMakeSlice/Int-4	10000000	133 ns/op	
BenchmarkMakeSlice/Ptr-4	10000000	188 ns/op	
BenchmarkMakeSlice/Struct/24-4	10000000	200 ns/op	
BenchmarkMakeSlice/Struct/32-4	10000000	230 ns/op	
BenchmarkMakeSlice/Struct/40-4 BenchmarkGrowSlice/Byte-4	5000000 10000000	262 ns/op 144 ns/op	
BenchmarkGrowSlice/Byte-4 BenchmarkGrowSlice/Int16-4	10000000	204 ns/op	
BenchmarkGrowSlice/Int-4	5000000	245 ns/op	
BenchmarkGrowSlice/Ptr-4	5000000	365 ns/op	
BenchmarkGrowSlice/Struct/24-4	3000000	428 ns/op	
BenchmarkGrowSlice/Struct/32-4	3000000	486 ns/op	
BenchmarkGrowSlice/Struct/40-4	2000000	607 ns/op	
BenchmarkExtendSlice/IntSlice-4	10000000	165 ns/op	
BenchmarkExtendSlice/PointerSlice-4	10000000	213 ns/op	
BenchmarkExtendSlice/NoGrow-4	10000000	15.4 ns/op	
BenchmarkAppend-4	30000000	56.2 ns/op	
BenchmarkAppendGrowByte-4	300	5560036 ns/op	
BenchmarkAppendGrowString-4	5	226765389 ns/op	
BenchmarkAppendSlice/1Bytes-4	100000000	12.6 ns/op	
BenchmarkAppendSlice/4Bytes-4	100000000	12.0 ns/op	
BenchmarkAppendSlice/7Bytes-4	100000000	11.9 ns/op	
BenchmarkAppendSlice/8Bytes-4	100000000	12.0 ns/op	
BenchmarkAppendSlice/15Bytes-4	100000000	11.9 ns/op	
BenchmarkAppendSlice/16Bytes-4	100000000	12.3 ns/op	
BenchmarkAppendSlice/32Bytes-4	100000000	12.6 ns/op	
BenchmarkAppendSliceLarge/1024Bytes-4	1000000	1420 ns/op	
BenchmarkAppendSliceLarge/4096Bytes-4	300000	4643 ns/op	
BenchmarkAppendSliceLarge/16384Bytes-4	100000	13584 ns/op	
BenchmarkAppendSliceLarge/65536Bytes-4	50000	32999 ns/op	
BenchmarkAppendSliceLarge/262144Bytes-4	10000	120741 ns/op	
BenchmarkAppendSliceLarge/1048576Bytes-4	2000	679068 ns/op	
BenchmarkAppendStr/1Bytes-4	100000000	13.5 ns/op	
BenchmarkAppendStr/4Bytes-4	100000000	11.9 ns/op	
BenchmarkAppendStr/8Bytes-4	100000000	11.9 ns/op	
BenchmarkAppendStr/16Bytes-4	100000000	12.6 ns/op	
BenchmarkAppendStr/32Bytes-4	100000000	14.4 ns/op	
BenchmarkAppendSpecialCase-4	20000000	85.0 ns/op	
BenchmarkCopy/1Byte-4	100000000	14.0 ns/op	71.25 MB/s
BenchmarkCopy/1String-4	100000000	13.8 ns/op	72.29 MB/s
BenchmarkCopy/2Byte-4	100000000	21.4 ns/op	93.67 MB/s
BenchmarkCopy/2String-4	100000000	17.1 ns/op	117.24 MB/s
BenchmarkCopy/4Byte-4	100000000	16.9 ns/op	237.34 MB/s
BenchmarkCopy/4String-4	100000000	16.8 ns/op	237.50 MB/s
BenchmarkCopy/8Byte-4	100000000	22.9 ns/op	348.61 MB/s
BenchmarkCopy/8String-4	100000000	16.8 ns/op	475.00 MB/s
BenchmarkCopy/12Byte-4	100000000	16.8 ns/op	712.43 MB/s
BenchmarkCopy/12String-4	100000000	16.9 ns/op	712.04 MB/s
BenchmarkCopy/16Byte-4	50000000	24.8 ns/op	646.37 MB/s
BenchmarkCopy/16String-4	100000000	16.8 ns/op 16.3 ns/op	949.90 MB/s
BenchmarkCopy/32Byte-4 BenchmarkCopy/32String-4	100000000		1964.35 MB/s
BenchmarkCopy/32String-4 BenchmarkCopy/128Byte-4	100000000	16.4 ns/op 27.4 ns/op	1956.17 MB/s 4676.48 MB/s
BenchmarkCopy/128String-4	5000000	27.4 ns/op 27.4 ns/op	4676.64 MB/s
BenchmarkCopy/1205tring-4 BenchmarkCopy/1024Byte-4	20000000	27.4 HS/OP 113 ns/op	9005.87 MB/s
BenchmarkCopy/1024String-4	20000000	113 ns/op	9004.83 MB/s
BenchmarkAppendInPlace/NoGrow/Byte-4	1000000	113 ns/op 1352 ns/op	5557.05 PID/S
BenchmarkAppendInPlace/NoGrow/1Ptr-4	300000	4058 ns/op	
BenchmarkAppendInPlace/NoGrow/2Ptr-4 BenchmarkAppendInPlace/NoGrow/2Ptr-4	200000	7520 ns/op	
BenchmarkAppendInPlace/NoGrow/3Ptr-4	200000	8608 ns/op	
BenchmarkAppendInPlace/NoGrow/4Ptr-4	100000	14133 ns/op	
BenchmarkAppendInPlace/Grow/Byte-4	100000	1076 ns/op	
BenchmarkAppendInPlace/Grow/1Ptr-4	1000000	1074 ns/op	
BenchmarkAppendInPlace/Grow/2Ptr-4	1000000	1449 ns/op	
BenchmarkAppendInPlace/Grow/3Ptr-4	1000000	1841 ns/op	
BenchmarkAppendInPlace/Grow/4Ptr-4	1000000	1983 ns/op	
BenchmarkStackCopyPtr-4	5	309390029 ns/op	
BenchmarkStackCopy-4	5	297313618 ns/op	
BenchmarkStackCopyNoCache-4	2	518883532 ns/op	
BenchmarkCompareStringEqual-4	100000000	12.8 ns/op	
BenchmarkCompareStringIdentical-4	100000000	11.9 ns/op	
BenchmarkCompareStringSameLength-4	100000000	10.5 ns/op	
BenchmarkCompareStringDifferentLength-4	2000000000	1.40 ns/op	
BenchmarkCompareStringBigUnaligned-4	3000	430422 ns/op	2436.18 MB/s
	3000	428766 ns/op	2445.59 MB/s
BenchmarkCompareStringBig-4			
BenchmarkCompareStringBig-4 BenchmarkConcatStringAndBytes-4	20000000	78.6 ns/op	
	20000000 100000000	78.6 ns/op 16.9 ns/op	
BenchmarkConcatStringAndBytes-4			

```
BenchmarkSliceByteToString/8-4
                                             20000000
                                                                  88.1 ns/op
                                             10000000
                                                                   122 ns/op
BenchmarkSliceByteToString/16-4
                                                                  139 ns/op
BenchmarkSliceByteToString/32-4
                                             10000000
                                            10000000
BenchmarkSliceByteToString/64-4
                                                                  186 ns/op
BenchmarkSliceByteToString/128-4
                                              5000000
                                                                   281 ns/op
BenchmarkRuneCount/lenruneslice/ASCII-4
                                            50000000
                                                                   37.9 ns/op
BenchmarkRuneCount/lenruneslice/Japanese-4
                                                     5000000
                                                                          263 ns/op
                                                5000000
10000000
BenchmarkRuneCount/lenruneslice/MixedLength-4
                                                                         232 ns/op
BenchmarkRuneCount/rangeloop/ASCII-4
                                                    50000000
                                                                           33.0 ns/op
                                                                         260 ns/op
BenchmarkRuneCount/rangeloop/Japanese-4
                                                     5000000
BenchmarkRuneCount/rangeloop/MixedLength-4
                                                    10000000
                                                                          208 ns/op
BenchmarkRuneCount/utf8.RuneCountInString/ASCII-4
                                                    30000000
                                                                          41.4 ns/op
BenchmarkRuneCount/utf8.RuneCountInString/Japanese-4
                                                            10000000
                                                                                 184 ns/op
BenchmarkRuneCount/utf8.RuneCountInString/MixedLength-4
                                                            10000000
                                                                                218 ns/op
                                                            50000000
                                                                                  29.5 ns/op
BenchmarkRuneIterate/range/ASCII-4
                                                                                246 ns/op
                                                            5000000
BenchmarkRuneIterate/range/Japanese-4
                                                            10000000
BenchmarkRuneIterate/range/MixedLength-4
                                                                                206 ns/op
BenchmarkRuneIterate/range1/ASCII-4
                                                            50000000
                                                                                  29.5 ns/op
                                                                                246 ns/op
221 ns/op
{\tt BenchmarkRuneIterate/range1/Japanese-4}
                                                            5000000
                                                           10000000
{\tt BenchmarkRuneIterate/range1/MixedLength-4}
BenchmarkRuneIterate/range2/ASCII-4
                                                          50000000
                                                                                  29.5 ns/op
                                                                                246 ns/op
BenchmarkRuneIterate/range2/Japanese-4
                                                             5000000
BenchmarkRuneIterate/range2/MixedLength-4
                                                           10000000
                                                                                 204 ns/op
BenchmarkArrayEqual-4
                                                            200000000
                                                                                   6.33 ns/op
BenchmarkClockVDSOAndFallbackPaths/vDSO-4
                                                           10000000
                                                                                 195 ns/op
BenchmarkClockVDSOAndFallbackPaths/Fallback-4
                                                                                 1936 ns/op
                                                            10000000
                                                                                 197 ns/op
PASS
       runtime
                    1331.420s
```

--Abishek Muthian (@heavyinfo)

Apple silicon

Cross-compiling Go applications

Host/Build: macOS/x86_64 Target: macOS/arm64 On host machine:

Xcode: Install latest Xcode which supports Apple silicon

Go: Install go*.darwin-amd64.pkg (or build go from source) on macOS/x86_64

Set go executable in PATH

Export the following environment variables before cross compiling go apps for macOS/arm64

```
export SDK_NAME=macosx
export SDK_PATH=$(xcrun --show-sdk-path --sdk $SDK_NAME)
export CGO_ENABLED=1
export GOOS=darwin
export GOARCH=arm64
export CC="$(xcrun -sdk $SDK_PATH --find clang) -arch $GOARCH -isysroot $SDK_PATH"
export CFLAGS="-isysroot $SDK_FATH -arch $GOARCH -I$SDK_FATH/usr/include"
export LD_LIBRARY_PATH="$SDK_PATH/usr/lib"
export LD_LIBRARY_PATH="$SDK_PATH/usr/lib"
export CGO_CFLAGS="-isysroot $SDK_PATH -arch $GOARCH"
export CGO_LDFLAGS="-isysroot $SDK_PATH -arch $GOARCH"
Compile the app as below:
$ GOOS=darwin GOARCH=arm64 go build <app>
```

Copy the generated arm64 executable to target machine (macOS/arm64) and run