These are benchmarks collected from the community used to measure the effects of changes to the Go core (compiler, runtime, garbage collector, and libraries). They should have the following properties:

- they matter; someone cares, perhaps in a dollars-and-cents way, that they run well
- they are go-gettable and don't require customized steps for building the benchmark
- they run under `go test -bench ...`
- they run relatively quickly, ideally a single "run" takes less than a second (there should perhaps be a separate set of longer-running benchmarks)
- their timings are not gratuitously noisy
- they run cleanly in a restricted environment, such as a Docker or rkt container
- they're not gratuitously redundant with other benchmarks already in the list; we don't need ten microbenchmarks of Go transcendental functions

These benchmarks change over time, and that is okay. Their intended use is for performance testing of proposed changes; is the geometric mean better, were any benchmarks made substantially worse?

Information for each benchmark includes (or should include):

- a short name for the benchmark
- the path to `go get` the benchmark
- a regexp for the benchmark suite excluding individual benchmarks that might be noisy, long-running, or redundant
- (ideally) a contact person for questions about the benchmarks

short name	notes	go get path	
ajstarks_deck_generate		github.com/ajstarks/deck/generate	Benchmark(Po)
benhoyt_goawk		github.com/benhoyt/goawk/interp	BenchmarkR
bindata		github.com/kevinburke/go-bindata	Benchmark
capnproto2		zombiezen.com/go/capnproto2/	Benchmark(Te)
cespare_mph		github.com/cespare/mph	BenchmarkBui
cespare_xxhash		github.com/cespare/xxhash	BenchmarkHasl
ericlagergren_decimal		github.com/ericlagergren/decimal/benchmarks	BenchmarkPi_(
ethereum_bitutil		github.com/ethereum/go-ethereum/common/bitutil	Benchmark(Bas
ethereum_core		github.com/ethereum/go-ethereum/core	BenchmarkChai
ethereum_corevm		github.com/ethereum/go-ethereum/core/vm	BenchmarkOpDi
ethereum_ecies		github.com/ethereum/go-ethereum/crypto/ecies	BenchmarkGen!
ethereum_ethash		github.com/ethereum/go-ethereum/consensus/ethash	BenchmarkHasl
ethereum_sha3		github.com/ethereum/go-ethereum/crypto/sha3	BenchmarkSha!
ethereum_storage		github.com/ethereum/go-ethereum/swarm/storage	BenchmarkJoir

ethereum_trie		`github.com/ethereum/go-ethereum/trie`	`Benchmark`
gonum_blas_native		`gonum.org/v1/gonum/blas/gonum`	`Benchmark(Das`
gonum_community		`gonum.org/v1/gonum/graph/community/`	`BenchmarkLouv`
gonum_lapack_native		`gonum.org/v1/gonum/lapack/gonum`	`BenchmarkDge@`
gonum_mat		`gonum.org/v1/gonum/mat`	`Benchmark(Mul`
gonum_path		`gonum.org/v1/gonum/graph/path/`	`Benchmark(AS†`
gonum_topo		`gonum.org/v1/gonum/graph/topo/`	`Benchmark(Ta`
gonum_traverse		`gonum.org/v1/gonum/graph/traverse/`	`BenchmarkWall`
gtank_blake2s		`github.com/gtank/blake2s`	`BenchmarkHash`
gtank_ed25519		`github.com/gtank/ed25519`	`Benchmark(Is(`
hugo_helpers		`github.com/gohugoio/hugo/helpers`	`Benchmark(St1`
hugo_hugolib		`github.com/gohugoio/hugo/hugolib`	`BenchmarkPars`
hugo_hugolib_sitebuilding		`github.com/gohugoio/hugo/hugolib`	`BenchmarkSite` `12`
k8s_api		`k8s.io/kubernetes/pkg/api/testing`	`BenchmarkEnc@`
k8s_schedulercache		`k8s.io/kubernetes/pkg/scheduler/cache`	`BenchmarkList`
minio		`github.com/minio/minio/cmd`	`BenchmarkGet(`
nelsam_gxui_interval		`github.com/nelsam/gxui/interval`	`Benchmark`
pilosa_bitmaps	benchmarks in `roaring/` subdirectory	`github.com/pilosa/pilosa`	`BenchmarkBitr`
semver		`github.com/Masterminds/semver`	`BenchmarkVal1`
spexs2		`github.com/egonelbre/spexs2/_benchmark/`	`BenchmarkRun,`
uber_zap		`go.uber.org/zap/benchmarks`	`BenchmarkAdd1`
uuid		`github.com/satori/go.uuid/`	`Benchmark(Ne\`

There is a [benchmark runner](#) that automates downloading, building, and running these benchmarks under various (user-defined) configurations. Benchmarking noise on Linux can be somewhat reduced with [perflock](#).

A few have been proposed but have so far failed to make the cut (for fetch, build, or noise problems):

short name	notes	go get path	benchmark regexp	cont
eolian_dsp		`buddin.us/eolian/dsp`	`Benchmark`	
ethereum_whisperv5		`github.com/ethereum/go-ethereum/whisper/whisperv5`	`Benchmark`	

| kanzi | | github.com/flanglet/kanzi/go/src/kanzi/benchmark | Benchmark | |