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	benchmark regexp	contact
ajstarks_deck_	_generate	github.com/a	jst Bekskdark/gedygan k	(Arc)
$benhoyt_goaw$	rk	github.com/b	enh Byn¢gmawk Rinterp	
oindata		github.com/k	evi Renckmágk -bindata	
capnproto2		zombiezen.co	m/g B∉naþmprkťō2 xtMove	mentBetween
cespare_mph		github.com/c	esp B∉n¢hph rkBuild	
cespare_xxhash		github.com/c	esp Bæn¢hmhmkH ashes/xx	hash-string
ericlagergren_	riclagergren_decimal		ricB egehgaekPdedémáh á	lbe Go h@arks
ethereum_bitu	hereum_bitutil		the BennMgark(BaseUm \$t	:2KB≬hFbstTe
ethereum_core	Э	github.com/e	the BennMgarkChainRm ad	lo fe ll_10k
$ethereum_corevm$		github.com/e	the BennMgarkOpDiv111 8c	ore/vm
ethereum_ecie	s	github.com/e	the Benn//garkChaSham ¢d	l Kyp⊉ 256cies
ethereum_etha	ash	github.com/e	the BennMgarkHashėmn to	b nghn sus/et
ethereum_sha	ethereum_sha3		the BennMgarkSha Be2124c	Myp to/sha3
ethereum_storage		github.com/ethe Benm/Mgarkfhėn e 8 m/swarm/storage		
$ethereum_trie$		_	the BenmMgark thereum/t	
gonum_blas_1	gonum_blas_native		/go hem¢bhaskģbasm mMed	liumUnitaryI
gonum community		gonum.org/v1	/go Ben¢kmapkkonmainDi	x∉ctedMulti

short name	notes	go get path	benchmark regexp	contact			
gonum_lapack	_native	gonum.org/v1	/go Ben¢hapakkggeu ddir	culant10			
gonum_mat		gonum.org/v1	/go Rem¢hma rk(MulWorks	spaceDense1000Hundredth\ ScaleVec10			
gonum_path		gonum.org/v1/goftem/gmapk/fath/UndirectedmallWorld_10_2_2_2_Heur\ Domin					
gonum_topo		gonum.org/v1/go Rum¢gmapk/Tapj ønSCCGnp_1000_half\ TarjanSCCGnp_10_tenth					
gonum_traverse		gonum.org/v1/go Bum¢gmapkWaik#delBré adthFirstGnp_(10\ 1000)_tenth					
$gtank_blake2s$		github.com/gtan R∉hdhma2k Hash8K					
$gtank_ed25519$		github.com/gtankendkhafk(IsOnCurve\ ScalarMult)					
hugo_helpers		github.com/gohu geno/magk/HelpHT ML\ ReaderContains)					
hugo_hugolib		0	ohu genioµmagkPhngePa ige				
hugo_hugolib_sitebuildinggithub.com/gohu@enoMmagk%hugBhibding/YAML,num_pages=10,num_tags=							
k8s_api		k8s.io/kubernet BenpkgarkEntedtCng ecFromInternalProtobuf					
k8s_schedulercache		k8s.io/kubernet Ben/pkg/skhėdtlkN/dasR0 kPods					
minio		•	ini B∉mċhṁark@d tObject	:5MbFS			
nelsam_gxui_interval		•	els Bm/ngkmä/k nterval				
pilosa_bitmap	s benchma	arksithub.com/p	ilo Banphhask Bitmap_In	terjadet Oqrilloantom			
	in						
	roaring	:/					
	subdi-						
	rec-						
	tory						
semver		•	ast Bem¢hda∕k⊌aved ateV				
spexs2		•	gon BèbchnapkRaû/10kn t				
uber_zap		•		elds/(Zap.Sugar\ ^[ais])			
uuid		github.com/satoBen/ghmankdNewV5\ MarshalToString)					

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	contact		
eolian_dsp		buddin.us/eolia hédsþ mark				
ethereum_whisperv5		github.com/ethe Benm/gark thereum/whisper/whisperv5				
kanzi		github.com/flan gent/kank i/go/src/kanzi/benchmark				