

-ghash

Gouint32uint64

```
import "github.com/gogf/gf/v2/encoding/ghash"
```

<https://pkg.go.dev/github.com/gogf/gf/v2/encoding/ghash>

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goos: darwin		
goarch: amd64		
pkg: github.com/gogf/gf/v2/encoding/ghash		
cpu: Intel(R) Core(TM) i7-9750H CPU @ 2.60GHz		
Benchmark_BKDR		
Benchmark_BKDR-12	39315165	26.88 ns/op
Benchmark_BKDR64		
Benchmark_BKDR64-12	62891215	22.61 ns/op
Benchmark_SDBM		
Benchmark_SDBM-12	49689925	25.40 ns/op
Benchmark_SDBM64		
Benchmark_SDBM64-12	48860472	24.38 ns/op
Benchmark_RS		
Benchmark_RS-12	39463418	25.52 ns/op
Benchmark_RS64		
Benchmark_RS64-12	53318370	19.45 ns/op
Benchmark_JS		
Benchmark_JS-12	53751033	23.20 ns/op
Benchmark_JS64		
Benchmark_JS64-12	62440287	19.25 ns/op
Benchmark_PJW		
Benchmark_PJW-12	42439626	27.85 ns/op
Benchmark_PJW64		
Benchmark_PJW64-12	37491696	33.28 ns/op
Benchmark_ELF		
Benchmark_ELF-12	38034584	31.74 ns/op
Benchmark_ELF64		
Benchmark_ELF64-12	44047201	27.58 ns/op
Benchmark_DJB		
Benchmark_DJB-12	46994352	22.60 ns/op
Benchmark_DJB64		
Benchmark_DJB64-12	61980186	19.19 ns/op
Benchmark_AP		
Benchmark_AP-12	29544234	40.58 ns/op
Benchmark_AP64		
Benchmark_AP64-12	28123783	42.48 ns/op

uint64

```

package main

import (
    "encoding/binary"
    "fmt"
    "math"

    "github.com/gogf/gf/v2/encoding/ghash"
)

func main() {
    var (
        m      = make(map[uint64]struct{})
        b      = make([]byte, 8)
        ok     bool
        hash   uint64
    )
    for i := uint64(0); i < math.MaxUint64; i++ {
        binary.LittleEndian.PutUint64(b, i)
        hash = ghash.PJW64(b)
        if _, ok = m[hash]; ok {
            fmt.Println("repeated found:", i)
            break
        }
        m[hash] = struct{}{}
    }
}

```

AP64	8388640	
BKDR64	33536	
DJB64	8448	
ELF64	4096	
JS64	734	
PJW64	2	
RS64	-	32G Memory OOM
SDBM64	-	32G Memory OOM