

etag

Create simple HTTP ETags

This module generates HTTP ETags (as defined in RFC 7232) for use in HTTP responses.

Installation

This is a [Node.js](#) module available through the [npm registry](#). Installation is done using the [npm install command](#):

API

`etag(entity, options)`

Generate a strong ETag for the given entity. This should be the complete body of the entity. Strings, Buffers, and fs.Stats are accepted. By default, a strong ETag is generated except for fs.Stats, which will generate a weak ETag (this can be overwritten by options.weak).

`res.setHeader('ETag', etag(body))`

Options

etag accepts these properties in the options object.

weak

Specifies if the generated ETag will include the weak validator mark (that is, the leading W/). The actual entity tag is the same. The default value is false, unless the entity is fs.Stats, in which case it is true.

Testing

`$ npm test`

```
real - weak    x 867,613 ops/sec
      ±0.39% (190 runs sampled)
fake - strong  x 401,051 ops/sec
      ±0.40% (189 runs sampled)
fake - weak    x 400,100 ops/sec
      ±0.47% (188 runs sampled)
```

License

[MIT](#)

Benchmark

```
$ npm run-script bench

> etag@1.8.1 bench nodejs-etag
> node benchmark/index.js

http_parser@2.7.0
node@6.11.1
v8@5.1.281.103
uv@1.11.0
zlib@1.2.11
ares@1.10.1-DEV
icu@58.2
modules@48
openssl@1.0.2k

> node benchmark/body0-100b.js

100B body

4 tests completed.

buffer - strong x 258,647 ops/sec
      ±1.07% (180 runs sampled)
buffer - weak   x 263,812 ops/sec
      ±0.61% (184 runs sampled)
string - strong x 259,955 ops/sec
      ±1.19% (185 runs sampled)
string - weak   x 264,356 ops/sec
      ±1.09% (184 runs sampled)

> node benchmark/body1-1kb.js
```

```

1KB body
4 tests completed.
buffer - strong x 189,018 ops/sec
±1.12% (182 runs sampled)
buffer - weak x 190,586 ops/sec
±0.81% (186 runs sampled)
string - strong x 144,272 ops/sec
±0.96% (188 runs sampled)
string - weak x 145,380 ops/sec
±1.43% (187 runs sampled)

> node benchmark/body2-5kb.js
5KB body
4 tests completed.
buffer - strong x 92,435 ops/sec
±0.42% (188 runs sampled)
buffer - weak x 92,373 ops/sec
±0.58% (189 runs sampled)
string - strong x 48,850 ops/sec
±0.56% (186 runs sampled)
string - weak x 49,380 ops/sec
±0.56% (190 runs sampled)

> node benchmark/body3-10kb.js
10KB body
4 tests completed.
real - strong x 871,642 ops/sec
±0.34% (189 runs sampled)
4 tests completed.

```

4

```

100KB body
4 tests completed.
buffer - strong x 55,989 ops/sec
±0.93% (188 runs sampled)
buffer - weak x 56,148 ops/sec
±0.55% (190 runs sampled)
string - strong x 27,345 ops/sec
±0.43% (188 runs sampled)
string - weak x 27,496 ops/sec
±0.45% (190 runs sampled)

> node benchmark/body4-100kb.js
100KB body
4 tests completed.
buffer - strong x 7,083 ops/sec
±0.22% (190 runs sampled)
buffer - weak x 7,115 ops/sec
±0.26% (191 runs sampled)
string - strong x 3,068 ops/sec
±0.34% (190 runs sampled)
string - weak x 3,096 ops/sec
±0.35% (190 runs sampled)

> node benchmark/stats.js
stat
4 tests completed.
real - strong x 871,642 ops/sec
±0.34% (189 runs sampled)
4 tests completed.

```

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