
prometheus-cpp Documentation

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Oct 25, 2018

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CHAPTER 1

Indices and tables

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CHAPTER 2

Doxxygen Index

struct Bucket

Public Members

```
std::uint64_t cumulative_count = 0  
double upper_bound = 0.0
```

class CKMSQuantiles

Public Functions

```
CKMSQuantiles (const std::vector<Quantile> &quantiles)  
void insert (double value)  
double get (double q)  
void reset ()
```

Private Functions

```
double allowableError (int rank)  
bool insertBatch ()  
void compress ()
```

Private Members

```
const std::reference_wrapper<const std::vector<Quantile>> quantiles_
std::size_t count_
std::vector<Item> sample_
std::array<double, 500> buffer_
std::size_t buffer_count_

struct ClientMetric
```

Public Members

```
std::vector<Label> label
Counter counter
Gauge gauge
Summary summary
Histogram histogram
Untyped untyped
std::int64_t timestamp_ms = 0

class Collectable
Subclassed by prometheus::Family< T >, prometheus::Registry
```

Public Functions

```
virtual ~Collectable()

virtual std::vector<MetricFamily> Collect() = 0

class Counter
```

Public Functions

```
void Increment()
void Increment(double)
double Value() const
ClientMetric Collect()
```

Public Static Attributes

```
const MetricType metric_type = MetricType::Counter
```

Private Members

Gauge **gauge_**

struct Counter

Public Members

double **value** = 0.0

class CounterBuilder

Public Functions

CounterBuilder &**Labels** (**const** std::map<std::string, std::string> &*labels*)

CounterBuilder &**Name** (**const** std::string&)

CounterBuilder &**Help** (**const** std::string&)

Family<*Counter*> &**Register** (*Registry*&)

Private Members

std::map<std::string, std::string> **labels_**

std::string **name_**

std::string **help_**

class Exposer

Public Functions

Exposer (**const** std::string &*bind_address*, **const** std::string &*uri* = std::string("/metrics"))

~Exposer ()

void **RegisterCollectable** (**const** std::weak_ptr<*Collectable*> &*collectable*)

Private Members

std::unique_ptr<CivetServer> **server_**

std::vector<std::weak_ptr<*Collectable*>> **collectables_**

std::shared_ptr<*Registry*> **exposer_registry_**

std::unique_ptr<*detail*::MetricsHandler> **metrics_handler_**

std::string **uri_**

template <typename *T*>

class Family : **public** *prometheus*::*Collectable*

Public Functions

```
Family (const std::string &name, const std::string &help, const std::map<std::string, std::string>
       &constant_labels)

template <typename... Args>
T &Add (const std::map<std::string, std::string> &labels, Args&&... args)

void Remove (T *metric)

std::vector<MetricFamily> Collect ()
```

Private Functions

```
ClientMetric CollectMetric (std::size_t hash, T *metric)
```

Private Members

```
std::unordered_map<std::size_t, std::unique_ptr<T>> metrics_
std::unordered_map<std::size_t, std::map<std::string, std::string>> labels_
std::unordered_map<T *, std::size_t> labels_reverse_lookup_
const std::string name_
const std::string help_
const std::map<std::string, std::string> constant_labels_
std::mutex mutex_
```

Private Static Functions

```
std::size_t hash_labels (const std::map<std::string, std::string> &labels)

class Gateway
```

Public Types

```
using Labels = std::map<std::string, std::string>
```

Public Functions

```
Gateway (const std::string &uri, const std::string jobname, const Labels &labels = {}, const
         std::string username = {}, const std::string password = {})

void RegisterCollectable (const std::weak_ptr<Collectable> &collectable, const Labels *la-
                           bels = nullptr)

int Push ()

std::future<int> AsyncPush ()

int PushAdd ()
```

```
std::future<int> AsyncPushAdd ()  
int Delete ()  
std::future<int> AsyncDelete ()
```

Public Static Functions

```
static const Labels GetInstanceLabel (std::string hostname)
```

Private Types

```
enum PushMode  
    Values:  
        Add  
        Replace
```

Private Functions

```
int push (PushMode mode)  
std::future<int> async_push (PushMode mode)
```

Private Members

```
std::string jobUri_  
std::string labels_  
std::string username_  
std::string password_  
std::vector<std::pair<std::weak_ptr<Collectable>, std::string>> collectables_  
struct Gauge
```

Public Members

```
double value = 0.0  
class Gauge
```

Public Functions

```
Gauge ()  
Gauge (double)  
void Increment ()  
void Increment (double)
```

```
void Decrement ()
void Decrement (double)
void Set (double)
void SetToCurrentTime ()
double Value () const
ClientMetric Collect ()
```

Public Static Attributes

```
const MetricType metric_type = MetricType::Gauge
```

Private Functions

```
void Change (double)
```

Private Members

```
std::atomic<double> value_
```

```
class GaugeBuilder
```

Public Functions

```
GaugeBuilder &Labels (const std::map<std::string, std::string> &labels)
```

```
GaugeBuilder &Name (const std::string&)
```

```
GaugeBuilder &Help (const std::string&)
```

```
Family<Gauge> &Register (Registry&)
```

Private Members

```
std::map<std::string, std::string> labels_
```

```
std::string name_
```

```
std::string help_
```

```
struct Histogram
```

Public Members

```
std::uint64_t sample_count = 0
```

```
double sample_sum = 0.0
```

```
std::vector<Bucket> bucket
```

```
class Histogram
```

Public Types

```
using BucketBoundaries = std::vector<double>
```

Public Functions

```
Histogram(const BucketBoundaries &buckets)
```

```
void Observe(double value)
```

```
ClientMetric Collect()
```

Public Static Attributes

```
const MetricType metric_type = MetricType::Histogram
```

Private Members

```
const BucketBoundaries bucket_boundaries_
std::vector<Counter> bucket_counts_
Counter sum_
class HistogramBuilder
```

Public Functions

```
HistogramBuilder &Labels(const std::map<std::string, std::string> &labels)
```

```
HistogramBuilder &Name(const std::string&)
```

```
HistogramBuilder &Help(const std::string&)
```

```
Family<Histogram> &Register(Registry&)
```

Private Members

```
std::map<std::string, std::string> labels_
std::string name_
std::string help_
struct Item
```

Public Functions

```
Item(double value, int lower_delta, int delta)
```

Public Members

```
double value
int g
int delta
struct Label
```

Public Functions

```
bool operator<(const Label &rhs) const
bool operator==(const Label &rhs) const
```

Public Members

```
std::string name
std::string value
struct MetricFamily
```

Public Members

```
std::string name
std::string help
MetricType type = MetricType::Untyped
std::vector<ClientMetric> metric
struct Quantile
```

Public Members

```
double quantile = 0.0
double value = 0.0
struct Quantile
```

Public Functions

```
Quantile (double quantile, double error)
```

Public Members

```
const double quantile
const double error
const double u
const double v
```

```
class Registry : public prometheus::Collectable
```

Public Functions

```
std::vector<MetricFamily> Collect ()
```

Private Functions

```
Family<Counter> &AddCounter (const std::string &name, const std::string &help, const std::map<std::string, std::string> &labels)
```

```
Family<Gauge> &AddGauge (const std::string &name, const std::string &help, const std::map<std::string, std::string> &labels)
```

```
Family<Histogram> &AddHistogram (const std::string &name, const std::string &help, const std::map<std::string, std::string> &labels)
```

```
Family<Summary> &AddSummary (const std::string &name, const std::string &help, const std::map<std::string, std::string> &labels)
```

Private Members

```
std::vector<std::unique_ptr<Collectable>> collectables_
```

```
std::mutex mutex_
```

Friends

```
friend prometheus::Registry::detail::CounterBuilder
friend prometheus::Registry::detail::GaugeBuilder
friend prometheus::Registry::detail::HistogramBuilder
friend prometheus::Registry::detail::SummaryBuilder
```

class Serializer

Subclassed by *prometheus::TextSerializer*

Public Functions

```
virtual ~Serializer()
```

```
virtual std::string Serialize (const std::vector<MetricFamily>&) const
```

```
virtual void Serialize (std::ostream &out, const std::vector<MetricFamily> &metrics) const = 0
```

class Summary

Public Types

```
using Quantiles = std::vector<detail::CKMSQuantiles::Quantile>
```

Public Functions

```
Summary(const Quantiles &quantiles, std::chrono::milliseconds max_age_seconds = std::chrono::seconds(60), int age_buckets = 5)  
void Observe(double value)  
ClientMetric Collect()
```

Public Static Attributes

```
const MetricType metric_type = MetricType::Summary
```

Private Members

```
const Quantiles quantiles_  
std::mutex mutex_  
double count_  
double sum_  
detail::TimeWindowQuantiles quantile_values_  
struct Summary
```

Public Members

```
std::uint64_t sample_count = 0  
double sample_sum = 0.0  
std::vector<Quantile> quantile  
class SummaryBuilder
```

Public Functions

```
SummaryBuilder &Labels(const std::map<std::string, std::string> &labels)  
SummaryBuilder &Name(const std::string&)  
SummaryBuilder &Help(const std::string&)  
Family<Summary> &Register(Registry&)
```

Private Members

```
std::map<std::string, std::string> labels_  
std::string name_  
std::string help_  
class TextSerializer : public prometheus::Serializer
```

Public Functions

```
void Serialize (std::ostream &out, const std::vector<MetricFamily> &metrics) const
class TimeWindowQuantiles
```

Public Functions

```
TimeWindowQuantiles (const std::vector<CKMSQuantiles::Quantile> &quantiles,
                     Clock::duration max_age_seconds, int age_buckets)

double get (double q)

void insert (double value)
```

Private Types

```
using Clock = std::chrono::steady_clock
```

Private Functions

```
CKMSQuantiles &rotate ()
```

Private Members

```
const std::vector<CKMSQuantiles::Quantile> &quantiles_
std::vector<CKMSQuantiles> ckms_quantiles_
std::size_t current_bucket_
Clock::time_point last_rotation_
const Clock::duration rotation_interval_

struct Untyped
```

Public Members

```
double value = 0

namespace prometheus
```

Enums

```
enum MetricType
Values:
  Counter
  Gauge
  Summary
  Untyped
```

Histogram

Functions

```
bool CheckMetricName (const std::string &name)
bool CheckLabelName (const std::string &name)
detail::CounterBuilder BuildCounter ()
detail::GaugeBuilder BuildGauge ()
detail::HistogramBuilder BuildHistogram ()
detail::SummaryBuilder BuildSummary ()

namespace detail
file check_names.h
    #include <string>
file client_metric.h
    #include <cstdint>#include <string>#include <tuple>#include <vector>#include
    "prometheus/metric_type.h"
file collectable.h
    #include <vector>
file counter.h
    #include <atomic>#include "prometheus/client_metric.h"#include "prometheus/gauge.h"
file counter_builder.h
    #include <map>#include <string>
file family.h
    #include <algorithm>#include <cassert>#include <functional>#include <map>#include <mem-
    ory>#include <mutex>#include <numeric>#include <string>#include <unordered_map>#include
    "check_names.h"#include "collectable.h"#include "metric_family.h"
file gauge.h
    #include <atomic>#include "prometheus/client_metric.h"#include "prometheus/collectable.h"
file gauge_builder.h
    #include <map>#include <string>
file histogram.h
    #include <vector>#include "prometheus/client_metric.h"#include "prometheus/counter.h"
file histogram_builder.h
    #include <map>#include <string>#include <vector>
file metric_family.h
    #include <string>#include <vector>#include "prometheus/client_metric.h"#include
    "prometheus/metric_type.h"
file metric_type.h
file registry.h
    #include <map>#include <memory>#include <mutex>#include "prometheus/client_metric.h"#include
    "prometheus/collectable.h"#include "prometheus/counter_builder.h"#include
    "prometheus/family.h"#include "prometheus/gauge_builder.h"#include "prometheus/histogram.h"#include
```

```
“prometheus/histogram_builder.h”#include
“prometheus/summary_builder.h”

file serializer.h
    #include      <string>#include      <vector>#include      “prometheus/client_metric.h”#include
    “prometheus/metric_family.h”

file summary.h
    #include <array>#include <atomic>#include <chrono>#include <functional>#include <list>#include <mu-
    tex>#include <vector>#include “prometheus/client_metric.h”

file summary_builder.h
    #include <map>#include <string>#include <vector>

file text_serializer.h
    #include      <string>#include      <vector>#include      “prometheus/metric_family.h”#include
    “prometheus/serializer.h”

file exposer.h
    #include      <atomic>#include      <cstdint>#include      <memory>#include      <string>#include
    “prometheus/histogram.h”#include “prometheus/registry.h”

file gateway.h
    #include      <future>#include      <map>#include      <memory>#include      <sstream>#include
    “prometheus/histogram.h”#include “prometheus/registry.h”

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