

**promtheus: rateirate**

```
irateirateirate
iratecounterratecounter
rate
```

## rate

```
Counter
Prometheus15metric1
```

timestamp	value
...	...
15:00:00	10000
15:00:15	10030
15:00:30	10045
15:00:45	10090

```
15:00:50PromQLrate(metric1[1m])2
```

```
PrometheusPromQLm14:59:51 - 15:00:50value(10090-10000)/(15:00:45-15:00:00)=2
```

29PromQL15:00:59.99[15:00:30.99, 15:00:59.99]No datapoints found

## irate

$$\text{ratevalue}_{15:00:50} = \text{rate}(\text{metric1}[1m])(10090-10045)/(15:00:45-15:00:30) = 3$$

- <https://pshzhysysu.gitbook.io/prometheus/prometheus/promql/nei-zhi-han-shu/rate>
- <https://blog.csdn.net/palet/article/details/82763695>
- <https://prometheus.io/docs/prometheus/latest/querying/functions/>

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