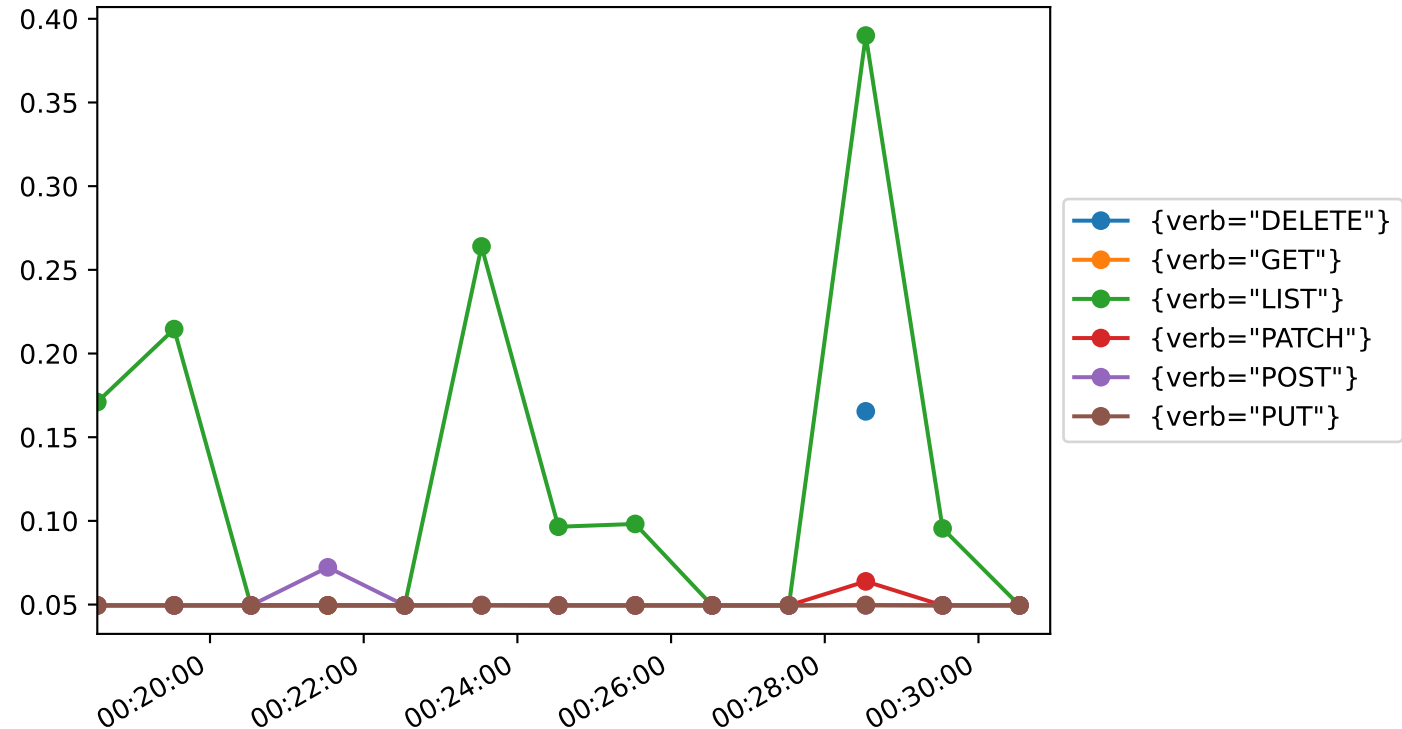
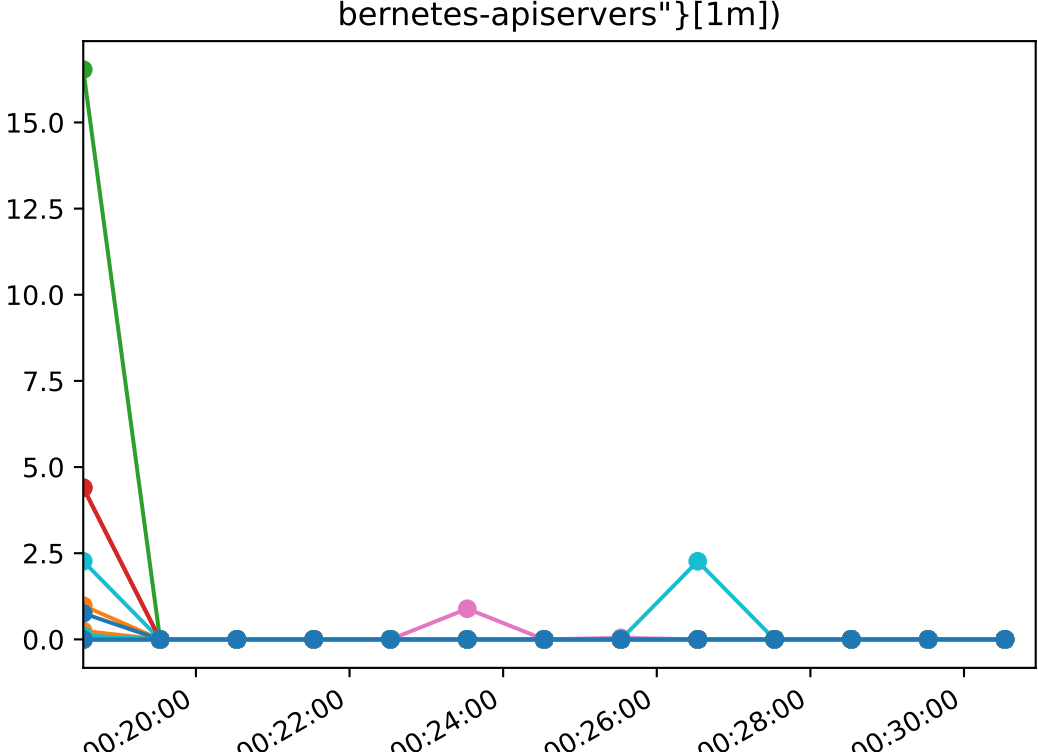


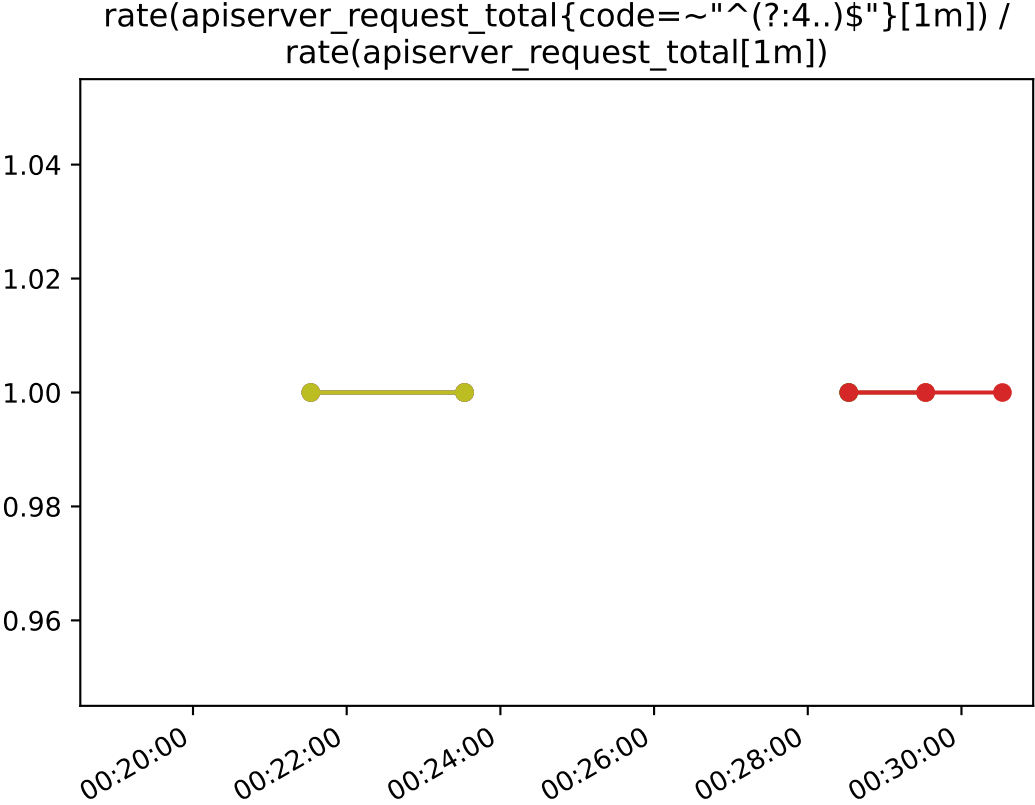
histogram\_quantile(0.99, sum(rate(apiserver\_request\_slo  
\_duration\_seconds\_bucket{job="kubernetes-  
apiservers"}[1m])) by (verb, le))



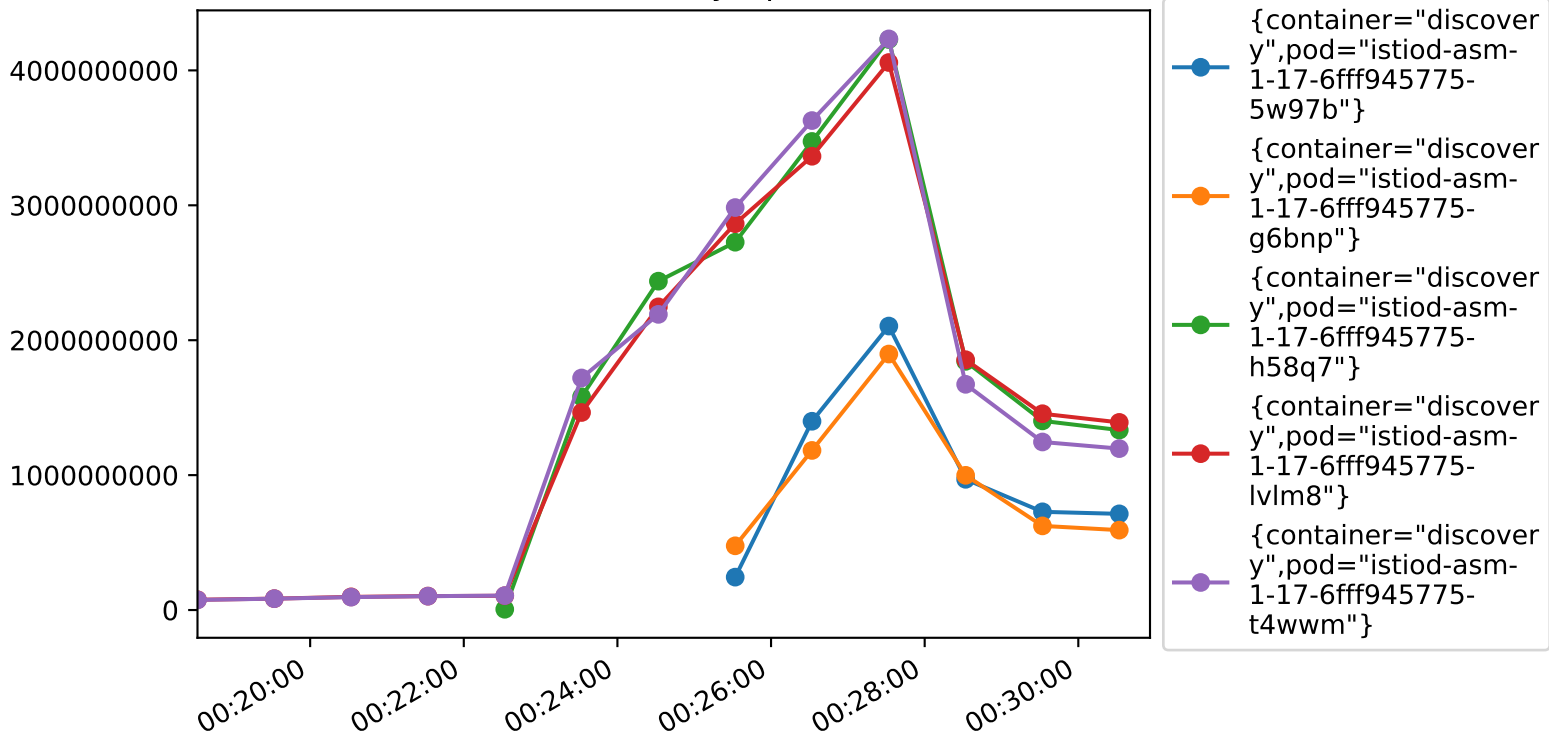


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- {instance="20.240.158.91:443",job="kubernetes-apiservers",resource\_prefix="/apisextensions.k8s.io/customresourcedefinitions"}
- {instance="20.240.158.91:443",job="kubernetes-apiservers",resource\_prefix="/apiregistration.k8s.io/apiservices"}
- {instance="20.240.158.91:443",job="kubernetes-apiservers",resource\_prefix="/clustertolbindings"}
- {instance="20.240.158.91:443",job="kubernetes-apiservers",resource\_prefix="/clustertoles"}
- {instance="20.240.158.91:443",job="kubernetes-apiservers",resource\_prefix="/config.gatekeeper.sh/configs"}
- {instance="20.240.158.91:443",job="kubernetes-apiservers",resource\_prefix="/configmaps"}
- {instance="20.240.158.91:443",job="kubernetes-apiservers",resource\_prefix="/constraints.gatekeeper.sh/k8sazurecustomcontainerallowedimages"}
- {instance="20.240.158.91:443",job="kubernetes-apiservers",resource\_prefix="/controllers"}
- {instance="20.240.158.91:443",job="kubernetes-apiservers",resource\_prefix="/csidrivers"}
- {instance="20.240.158.91:443",job="kubernetes-apiservers",resource\_prefix="/csinodes"}
- {instance="20.240.158.91:443",job="kubernetes-apiservers",resource\_prefix="/cstoragcapacities"}
- {instance="20.240.158.91:443",job="kubernetes-apiservers",resource\_prefix="/daemonsets"}
- {instance="20.240.158.91:443",job="kubernetes-apiservers",resource\_prefix="/endpointslices"}
- {instance="20.240.158.91:443",job="kubernetes-apiservers",resource\_prefix="/flowschemas"}
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- {instance="20.240.158.91:443",job="kubernetes-apiservers",resource\_prefix="/minions"}
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- {instance="20.240.158.91:443",job="kubernetes-apiservers",resource\_prefix="/networking.istio.io/gateways"}
- {instance="20.240.158.91:443",job="kubernetes-apiservers",resource\_prefix="/networking.istio.io/serviceentries"}
- {instance="20.240.158.91:443",job="kubernetes-apiservers",resource\_prefix="/networking.istio.io/sidecars"}
- {instance="20.240.158.91:443",job="kubernetes-apiservers",resource\_prefix="/networking.istio.io/virtualservices"}
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- {instance="20.240.158.91:443",job="kubernetes-apiservers",resource\_prefix="/pods"}
- {instance="20.240.158.91:443",job="kubernetes-apiservers",resource\_prefix="/priorityclasses"}
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- {instance="20.240.158.91:443",job="kubernetes-apiservers",resource\_prefix="/replicasets"}
- {instance="20.240.158.91:443",job="kubernetes-apiservers",resource\_prefix="/resourcequotas"}
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- {instance="20.240.158.91:443",job="kubernetes-apiservers",resource\_prefix="/secrets"}
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- {instance="20.240.158.91:443",job="kubernetes-apiservers",resource\_prefix="/status.gatekeeper.sh/constraintpodstatuses"}
- {instance="20.240.158.91:443",job="kubernetes-apiservers",resource\_prefix="/status.gatekeeper.sh/constrainttemplatepodstatuses"}
- {instance="20.240.158.91:443",job="kubernetes-apiservers",resource\_prefix="/storageclasses"}
- {instance="20.240.158.91:443",job="kubernetes-apiservers",resource\_prefix="/templates.gatekeeper.sh/constrainttemplates"}
- {instance="20.240.158.91:443",job="kubernetes-apiservers",resource\_prefix="/validatingwebhookconfigurations"}
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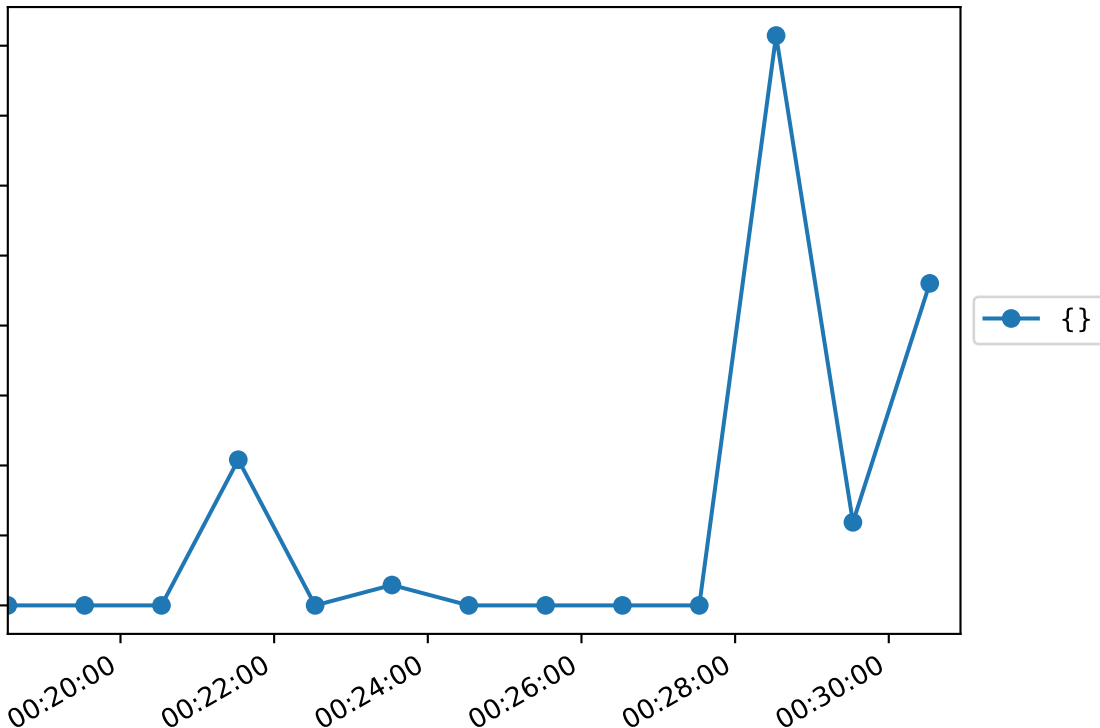
- `{code="403",component="apiserver",instance="20.240.158.91:443",job="kubernetes-apiservers",resource="events",scope="resource",verb="POST",version="v1"}`
- `{code="404",component="apiserver",instance="20.240.158.91:443",job="kubernetes-apiservers",resource="events",scope="resource",verb="PATCH",version="v1"}`
- `{code="404",component="apiserver",instance="20.240.158.91:443",job="kubernetes-apiservers",resource="pods",scope="resource",verb="GET",version="v1"}`
- `{code="409",component="apiserver",group="admissionregistration.k8s.io",instance="20.240.158.91:443",job="kubernetes-apiservers",resource="validatingwebhookconfigurations",scope="resource",verb="PUT",version="v1"}`
- `{code="409",component="apiserver",group="apiextensions.k8s.io",instance="20.240.158.91:443",job="kubernetes-apiservers",resource="customresourcedefinitions",scope="resource",verb="POST",version="v1"}`
- `{code="409",component="apiserver",group="apiregistration.k8s.io",instance="20.240.158.91:443",job="kubernetes-apiservers",resource="apiservices",scope="resource",subresource="status",verb="PUT",version="v1"}`
- `{code="409",component="apiserver",group="storage.k8s.io",instance="20.240.158.91:443",job="kubernetes-apiservers",resource="storageclasses",scope="resource",verb="POST",version="v1"}`
- `{code="409",component="apiserver",instance="20.240.158.91:443",job="kubernetes-apiservers",resource="configmaps",scope="resource",verb="POST",version="v1"}`
- `{code="409",component="apiserver",instance="20.240.158.91:443",job="kubernetes-apiservers",resource="namespaces",scope="resource",verb="POST",version="v1"}`



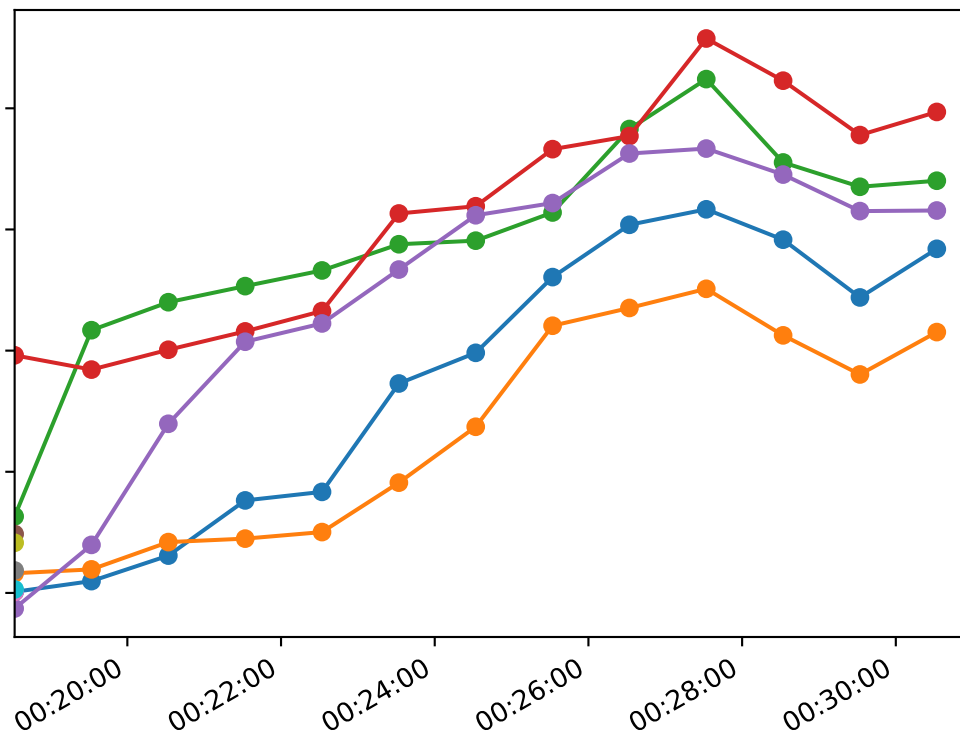
max by (pod, container)(container\_memory\_working\_set\_by  
tes{container="discovery", pod=~"istio.\*"})



$$\frac{\text{sum}(\text{rate}(\text{apiserver\_request\_total}\{\text{job}=\text{"kubernetes-apiservers"},\text{code}=\sim"[45].." \}[1\text{m}]))*100}{\text{sum}(\text{rate}(\text{apiserver\_request\_total}\{\text{job}=\text{"kubernetes-apiservers"}\}[1\text{m}]))}$$

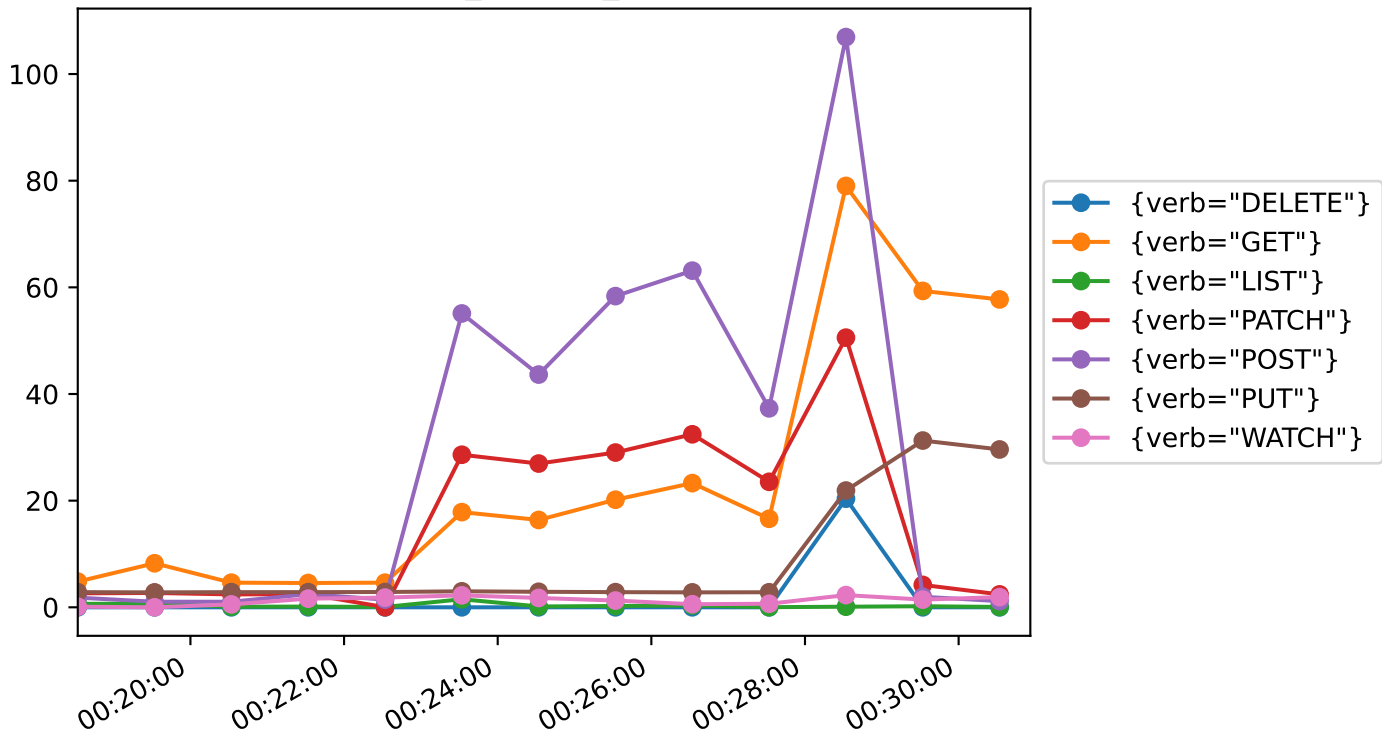


max by (pod, container)(container\_memory\_working\_set\_by  
tes{container="coredns"})



- { container="coredns", pod="coredns-85f7c69958-4hfhf" }
- { container="coredns", pod="coredns-85f7c69958-64htf" }
- { container="coredns", pod="coredns-85f7c69958-8hmqh" }
- { container="coredns", pod="coredns-85f7c69958-d7hj7" }
- { container="coredns", pod="coredns-85f7c69958-xdxsp" }
- { container="coredns", pod="coredns-fb6b9d95f-6v6xl" }
- { container="coredns", pod="coredns-fb6b9d95f-b8hjh" }
- { container="coredns", pod="coredns-fb6b9d95f-glv99" }
- { container="coredns", pod="coredns-fb6b9d95f-qxqgj" }
- { container="coredns", pod="coredns-fb6b9d95f-z86x8" }

sum(rate/apiserver\_request\_total[1m])) by (verb)

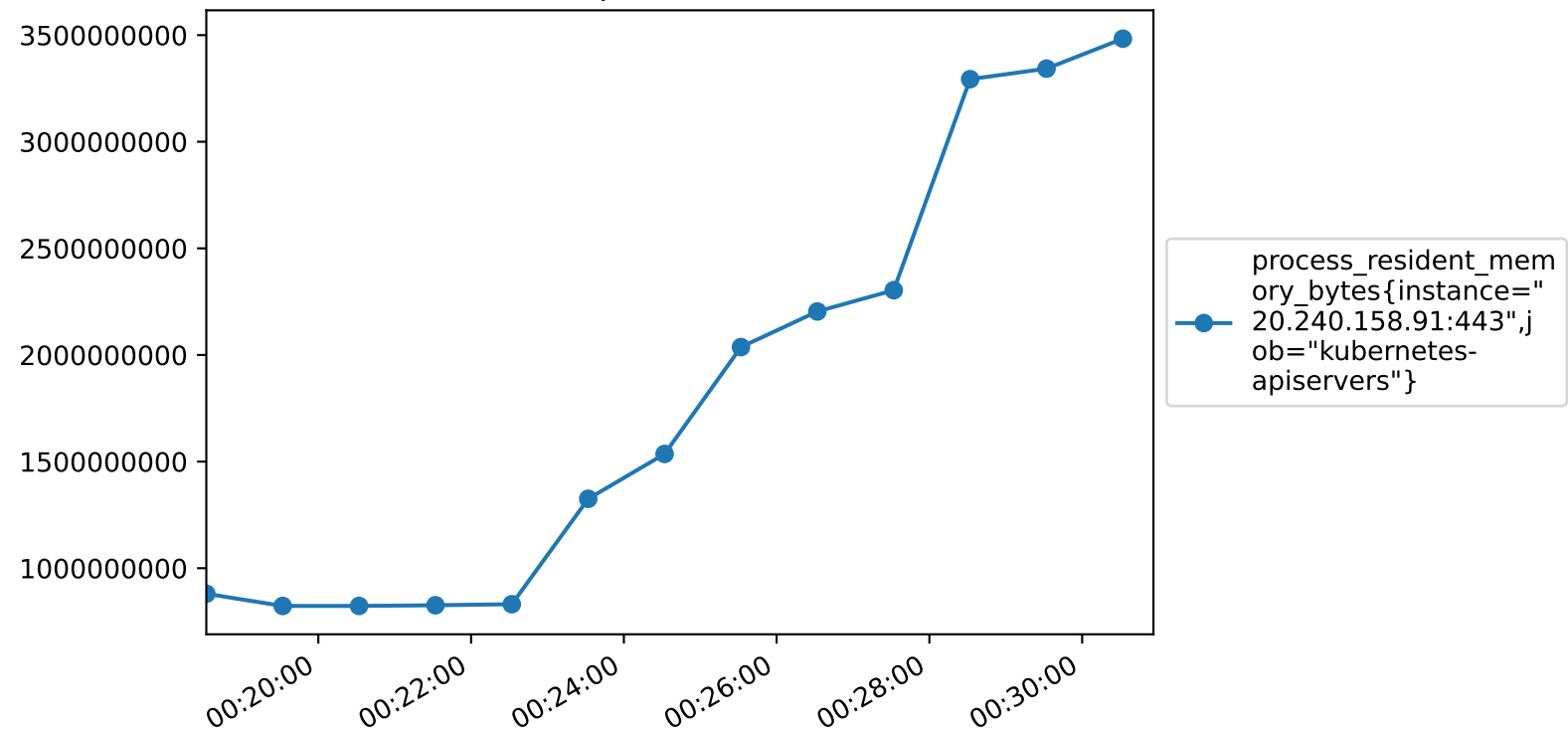




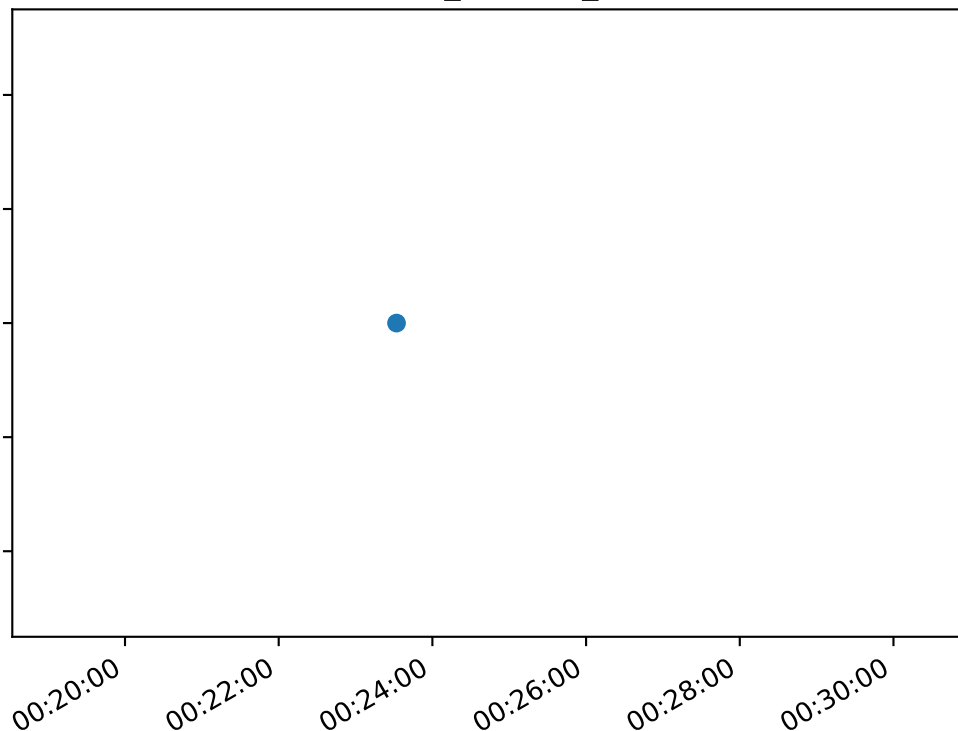




process\_resident\_memory\_bytes{job="kubernetes-  
apiservers"}

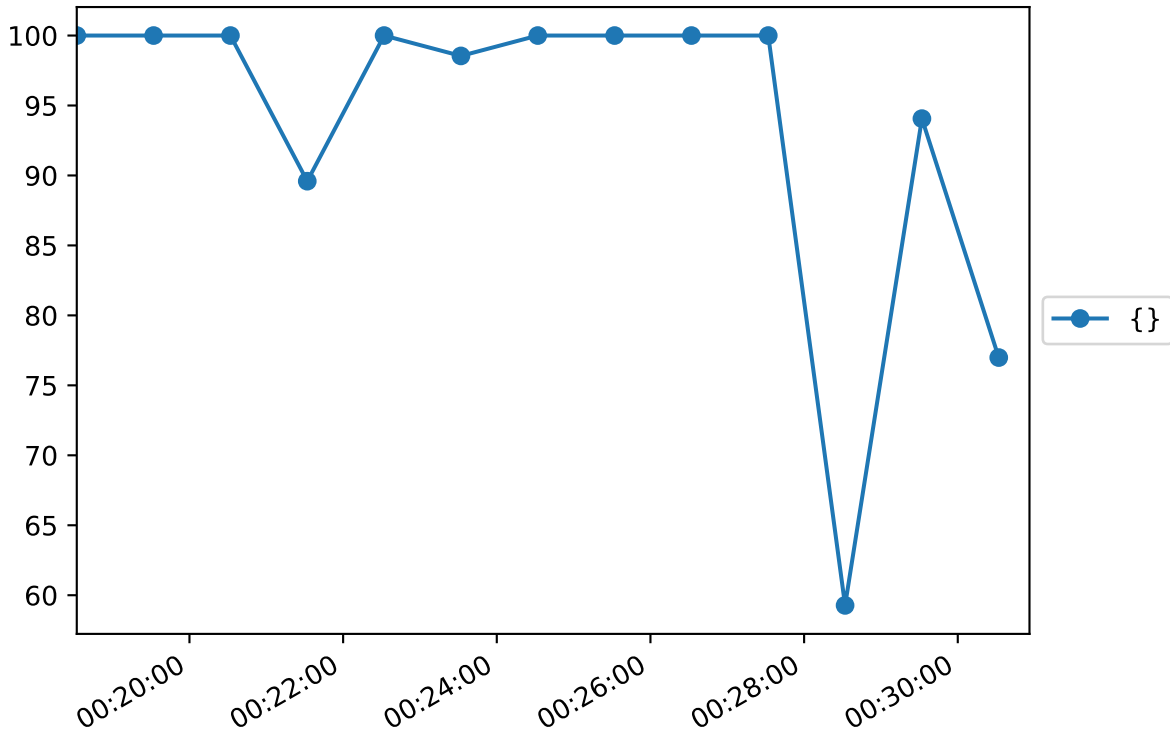


$\text{rate}(\text{apiserver\_request\_total}\{\text{code}=\sim"^(?:5..)\$"\}[1\text{m}]) / \text{rate}(\text{apiserver\_request\_total}[1\text{m}])$

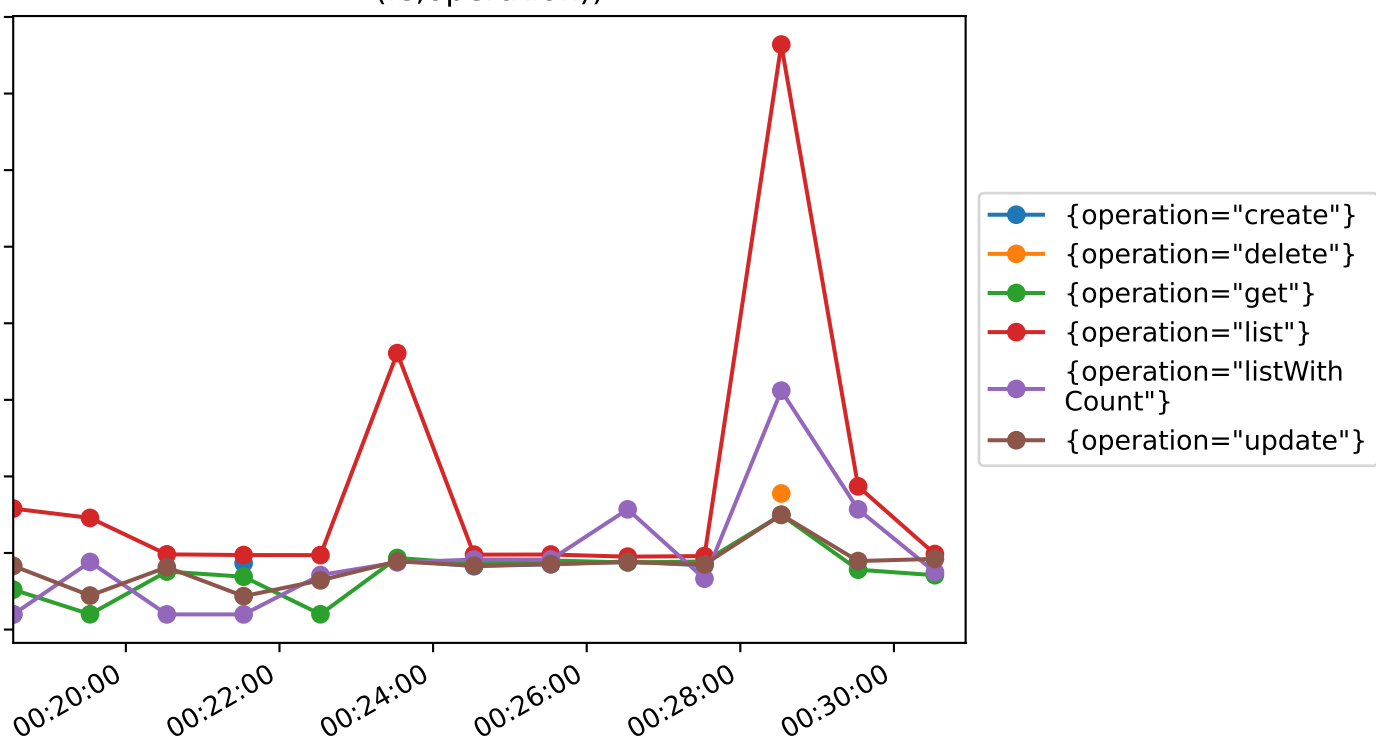


`{code="503",component="apiserver",instance="20.240.158.91:443",job="kubernetes-apiservers",resource="nodes",scope="resource",subresource="proxy",verb="GET",version="v1"}`

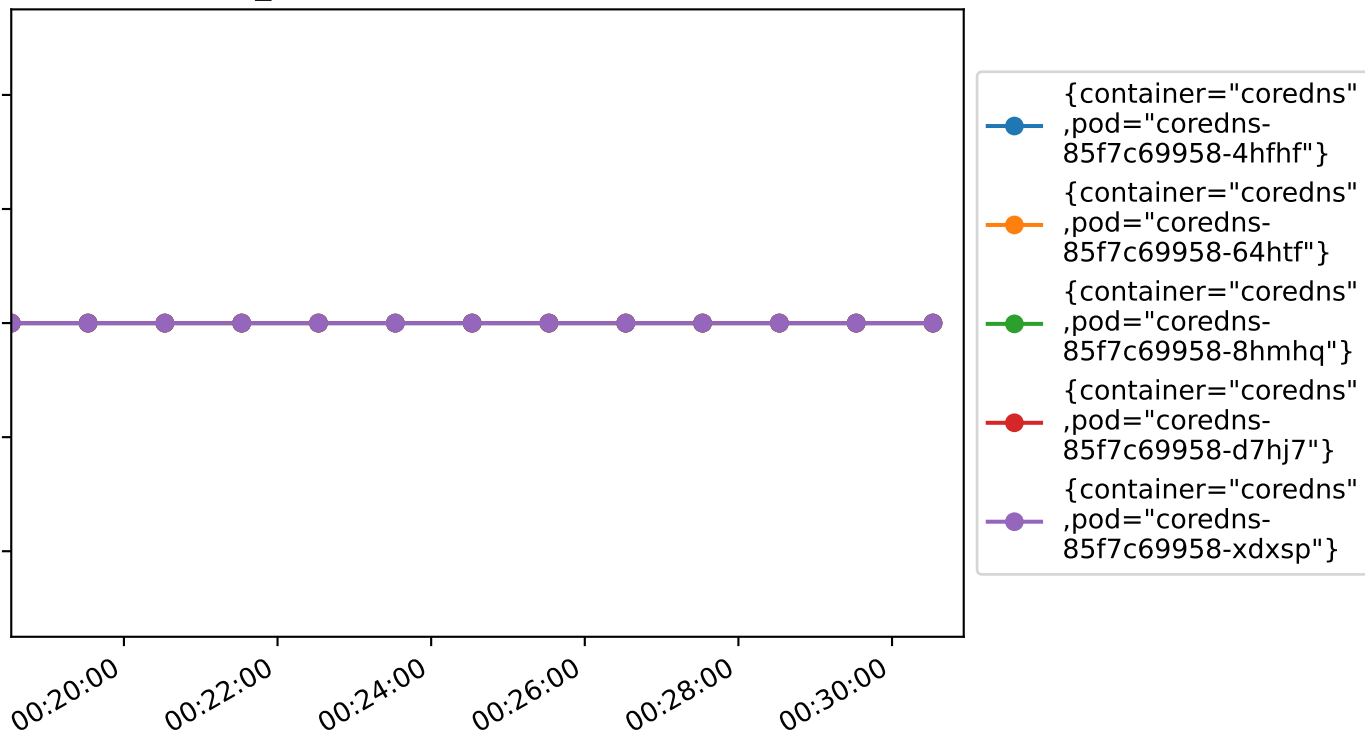
$$\frac{\text{sum}(\text{rate}(\text{apiserver\_request\_total}\{\text{job}=\text{"kubernetes-apiser vers",code}=\sim\text{"2.."}\}[1\text{m}]))*100}{\text{sum}(\text{rate}(\text{apiserver\_request\_total}\{\text{job}=\text{"kubernetes-apiservers"}\}[1\text{m}]))}$$



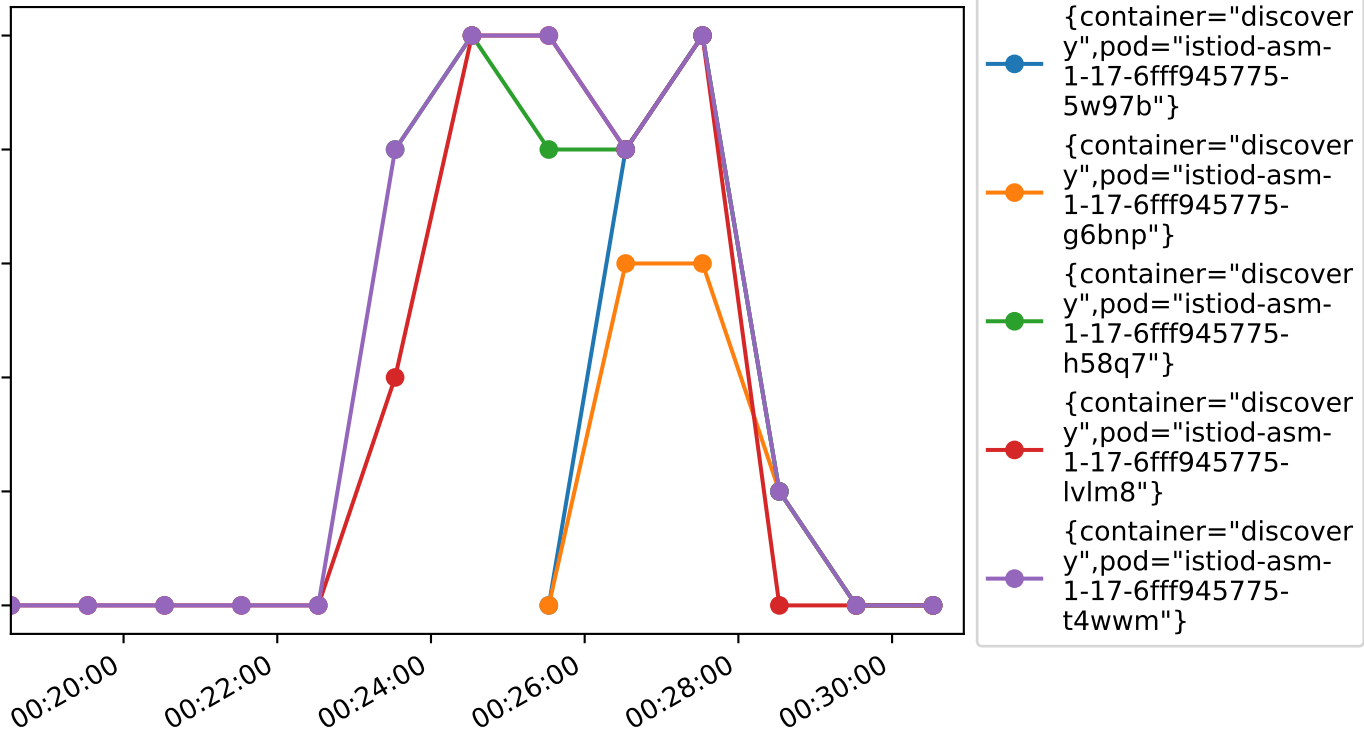
histogram\_quantile(0.99, sum(rate(etcd\_request\_duration\_seconds\_bucket{job="kubernetes-apiservers"}[1m])) by (le,operation))



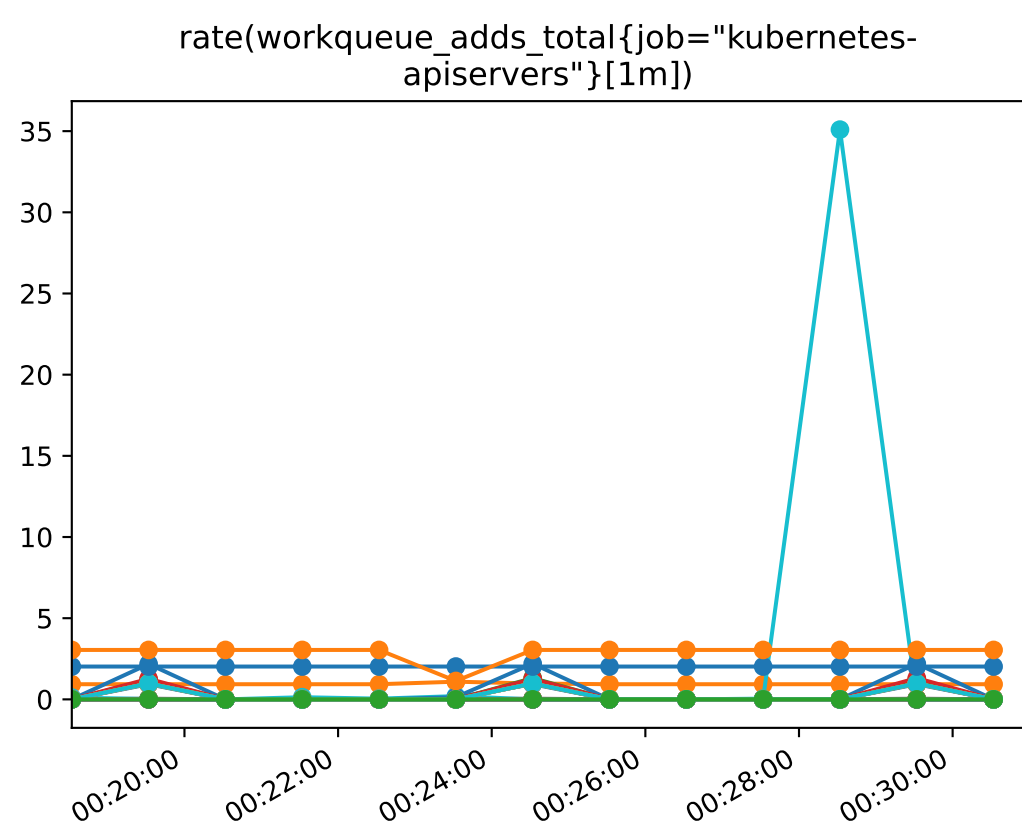
max by (container, pod)(ceil(rate(container\_cpu\_usage\_seconds\_total{container="coredns"}[1m])))



```
max by (container, pod)(ceil(rate(container_cpu_usage_s  
econds_total{container="discovery",  
pod=~"istio.*"}[1m])))
```







rate(process\_cpu\_seconds\_total{job="kubernetes-  
apiservers"}[1m])

