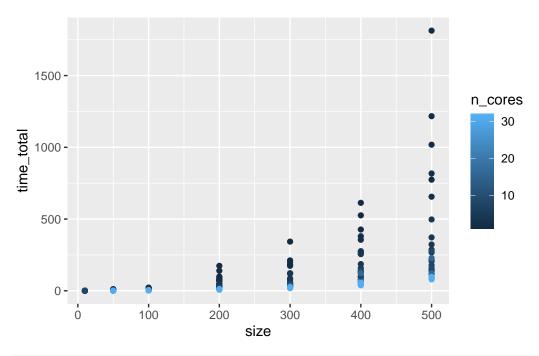
# **Benchmark Plots**

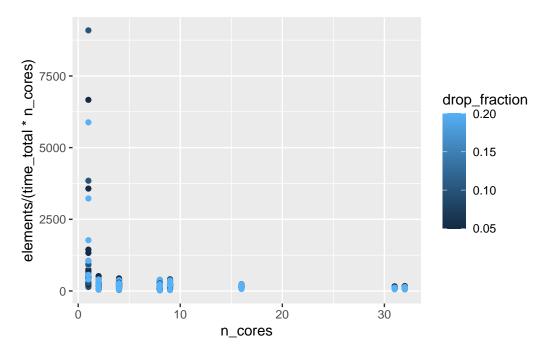
```
require(ggplot2)
Loading required package: ggplot2
require(ggpubr)
Loading required package: ggpubr
Load Timing Data
```

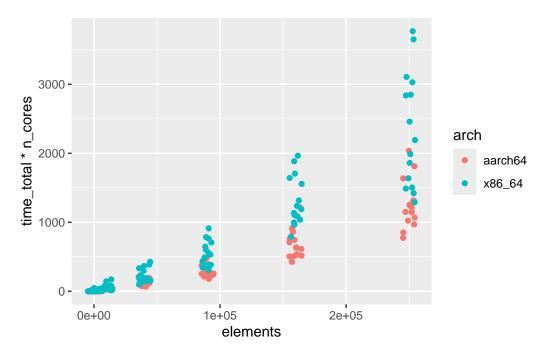
```
times_imputation <- readRDS("times_imputation.rds")</pre>
times_distance <- readRDS("times_distance.rds")</pre>
```

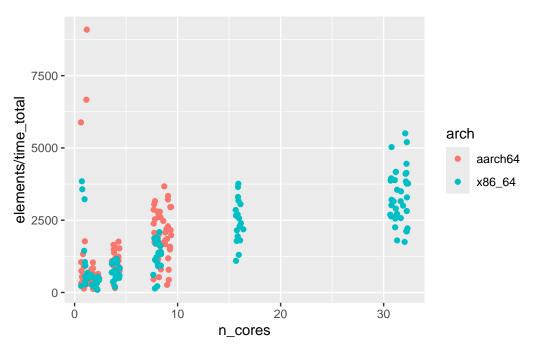
# Plot imputation times

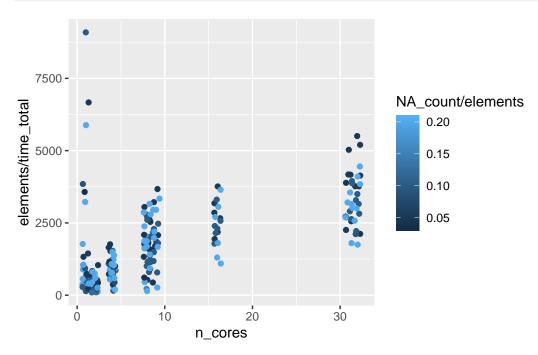
```
ggplot(times_imputation,
      aes(x=size, y=time_total, colour=n_cores)) +
 geom_point()
```



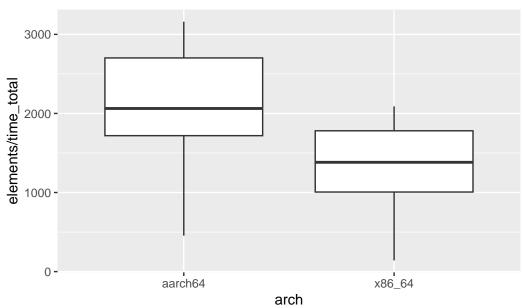


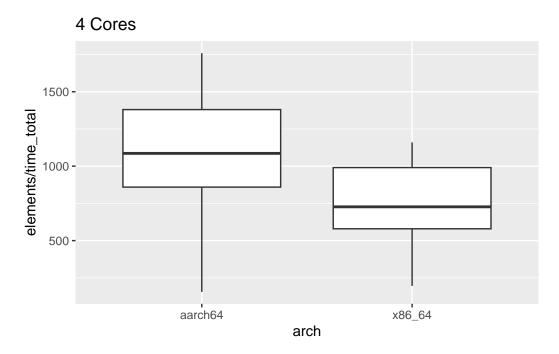




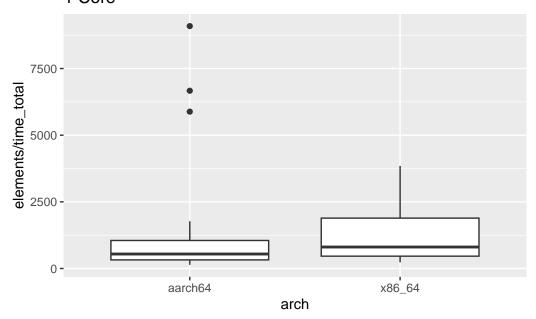


#### 8 Cores

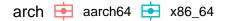


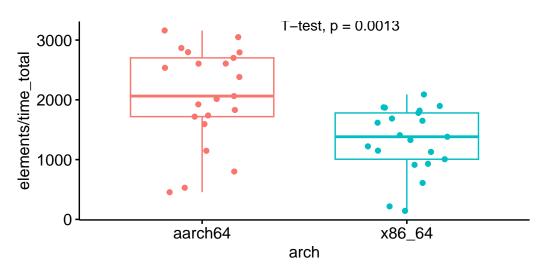


# 1 Core

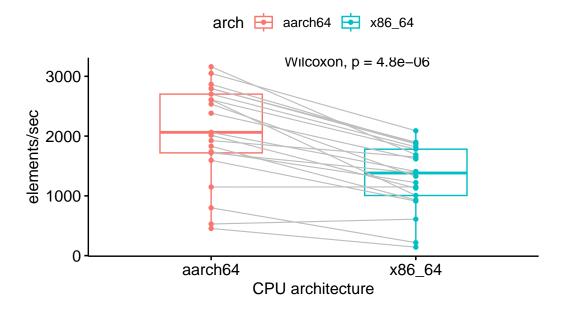


#### 8 Cores

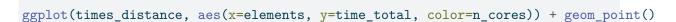


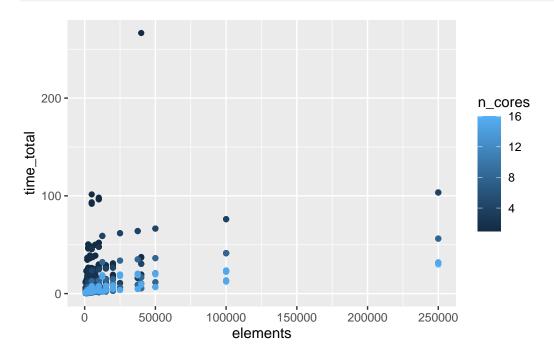


# 8 Cores

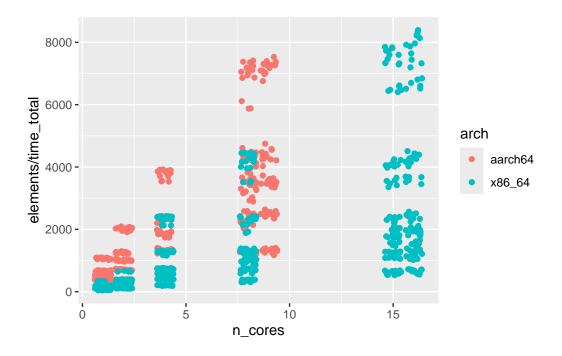


#### **Plot Distance Times**

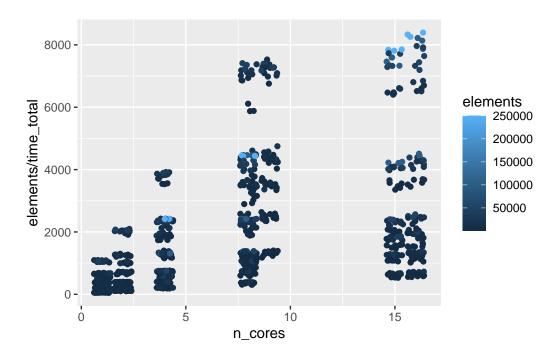




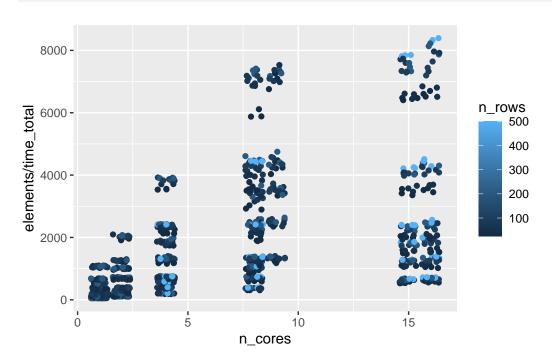
# $\label{eq:continuous_distance} $$\gcd(y=elements/time\_total, x=n\_cores, colour=arch)) + $$\gcd(jitter())$$



ggplot(times\_distance, aes(y=elements/time\_total, x=n\_cores, color=elements)) +
 geom\_jitter()



ggplot(times\_distance, aes(y=elements/time\_total, x=n\_cores, color=n\_rows)) +
 geom\_jitter()



ggplot(times\_distance, aes(y=elements/time\_total, x=n\_cores, color=n\_cols)) +
 geom\_jitter()

