

```
In [2]: import pandas as pd

comp=pd.read_csv("computer_hardware_dataset.csv")
comp.head()
```

```
Out[2]:
```

|   | vendor_name | model_name | MYCT | MMIN | MMAX  | CACH | CHMIN | CHMAX | PRP | ERP |
|---|-------------|------------|------|------|-------|------|-------|-------|-----|-----|
| 0 | adviser     | 32/60      | 125  | 256  | 6000  | 256  | 16    | 128   | 198 | 199 |
| 1 | amdahl      | 470v/7     | 29   | 8000 | 32000 | 32   | 8     | 32    | 269 | 253 |
| 2 | amdahl      | 470v/7a    | 29   | 8000 | 32000 | 32   | 8     | 32    | 220 | 253 |
| 3 | amdahl      | 470v/7b    | 29   | 8000 | 32000 | 32   | 8     | 32    | 172 | 253 |
| 4 | amdahl      | 470v/7c    | 29   | 8000 | 16000 | 32   | 8     | 16    | 132 | 132 |

```
In [6]: comp["PRP"].between(100,230)
```

```
Out[6]: 0      True
1     False
2      True
3      True
4      True
...
204    False
205    False
206    False
207    False
208    False
Name: PRP, Length: 209, dtype: bool
```

In [7]: `comp[comp["PRP"].between(100,230)]`

Out[7]:

|     | vendor_name | model_name       | MYCT | MMIN | MMAx  | CACH | CHMIN | CHMAX | PRP | ERP |
|-----|-------------|------------------|------|------|-------|------|-------|-------|-----|-----|
| 0   | adviser     | 32/60            | 125  | 256  | 6000  | 256  | 16    | 128   | 198 | 199 |
| 2   | amdahl      | 470v/7a          | 29   | 8000 | 32000 | 32   | 8     | 32    | 220 | 253 |
| 3   | amdahl      | 470v/7b          | 29   | 8000 | 32000 | 32   | 8     | 32    | 172 | 253 |
| 4   | amdahl      | 470v/7c          | 29   | 8000 | 16000 | 32   | 8     | 16    | 132 | 132 |
| 13  | basf        | 7/68             | 50   | 4000 | 16000 | 65   | 1     | 8     | 138 | 117 |
| 19  | burroughs   | b4955            | 110  | 5000 | 5000  | 142  | 8     | 64    | 120 | 124 |
| 34  | cdc         | cyber:170/835    | 56   | 5240 | 20970 | 30   | 12    | 24    | 106 | 138 |
| 35  | cdc         | cyber:170/845    | 64   | 5240 | 20970 | 30   | 12    | 24    | 208 | 136 |
| 52  | dg          | eclipse:mv/10000 | 140  | 1000 | 16000 | 16   | 1     | 3     | 138 | 72  |
| 63  | gould       | concept:32/8705  | 75   | 2000 | 8000  | 64   | 1     | 38    | 144 | 75  |
| 64  | gould       | concept:32/8750  | 75   | 2000 | 16000 | 64   | 1     | 38    | 144 | 113 |
| 88  | honeywell   | dps:8/49         | 140  | 2000 | 32000 | 32   | 1     | 20    | 134 | 175 |
| 90  | honeywell   | dps:8/52         | 140  | 2000 | 32000 | 32   | 1     | 54    | 141 | 181 |
| 91  | honeywell   | dps:8/62         | 140  | 2000 | 32000 | 32   | 1     | 54    | 189 | 181 |
| 93  | ibm         | 3033:s           | 57   | 4000 | 16000 | 1    | 6     | 12    | 132 | 82  |
| 98  | ibm         | 3083:e           | 26   | 8000 | 16000 | 0    | 8     | 16    | 185 | 113 |
| 120 | ibm         | 4381-1           | 17   | 4000 | 16000 | 8    | 6     | 12    | 100 | 101 |
| 121 | ibm         | 4381-2           | 17   | 4000 | 16000 | 32   | 6     | 12    | 133 | 116 |
| 130 | ipl         | 4480             | 50   | 8000 | 16000 | 48   | 1     | 10    | 136 | 128 |
| 147 | nas         | as/6650          | 50   | 4000 | 16000 | 64   | 5     | 10    | 111 | 119 |
| 148 | nas         | as/7000          | 72   | 4000 | 16000 | 64   | 8     | 16    | 143 | 120 |

|            | vendor_name | model_name | MYCT | MMIN | MMAx  | CACH | CHMIN | CHMAX | PRP | ERP |
|------------|-------------|------------|------|------|-------|------|-------|-------|-----|-----|
| <b>149</b> | nas         | as/7000-n  | 72   | 2000 | 8000  | 16   | 6     | 8     | 105 | 48  |
| <b>150</b> | nas         | as/8040    | 40   | 8000 | 16000 | 32   | 8     | 16    | 214 | 126 |
| <b>154</b> | nas         | as/9000-n  | 48   | 4000 | 24000 | 32   | 8     | 24    | 214 | 151 |
| <b>166</b> | ncr         | v8650      | 38   | 4000 | 8000  | 32   | 16    | 32    | 116 | 80  |
| <b>167</b> | ncr         | v8655      | 38   | 8000 | 16000 | 64   | 4     | 8     | 100 | 142 |
| <b>168</b> | ncr         | v8665      | 38   | 8000 | 24000 | 160  | 4     | 8     | 140 | 281 |
| <b>169</b> | ncr         | v8670      | 38   | 4000 | 16000 | 128  | 16    | 32    | 212 | 190 |
| <b>180</b> | prime       | 50-850-ii  | 160  | 2000 | 8000  | 32   | 1     | 13    | 109 | 53  |
| <b>186</b> | siemens     | 7.561      | 52   | 4000 | 16000 | 32   | 4     | 12    | 130 | 99  |
| <b>188</b> | siemens     | 7.870-2    | 59   | 4000 | 12000 | 32   | 6     | 12    | 113 | 81  |
| <b>189</b> | siemens     | 7.872-2    | 59   | 8000 | 16000 | 64   | 12    | 24    | 188 | 149 |
| <b>190</b> | siemens     | 7.875-2    | 26   | 8000 | 24000 | 32   | 8     | 16    | 173 | 183 |
| <b>194</b> | sperry      | 1100/81    | 50   | 2000 | 32000 | 24   | 6     | 26    | 114 | 182 |
| <b>195</b> | sperry      | 1100/82    | 50   | 2000 | 32000 | 48   | 26    | 52    | 208 | 227 |

```
In [9]: comp["CHMAX"].between(100,105)
```

```
Out[9]: 0      False
        1      False
        2      False
        3      False
        4      False
        ...
       204     False
       205     False
       206     False
       207     False
       208     False
       Name: CHMAX, Length: 209, dtype: bool
```

```
In [10]: comp[comp["CHMAX"].between(100,105)]
```

```
Out[10]:
```

|            | vendor_name | model_name | MYCT | MMIN | MMAX  | CACH | CHMIN | CHMAX | PRP | ERP |
|------------|-------------|------------|------|------|-------|------|-------|-------|-----|-----|
| <b>196</b> | sperry      | 1100/83    | 50   | 2000 | 32000 | 112  | 52    | 104   | 307 | 341 |
| <b>197</b> | sperry      | 1100/84    | 50   | 4000 | 32000 | 112  | 52    | 104   | 397 | 360 |