

# CPU Price Prediction Dataset Documentation

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## 1 About

This dataset contains various attributes of desktop microprocessors manufactured by Intel and AMD. The goal of constructing this dataset is to predict the price of microprocessors with the help of its attributes.

## 2 Data Sources:

The prices of the CPUs were collected from <http://www.amazon.co.uk> and the single core and multi core cinebench r15 scores were collected from CPU monkey.com's Single Core and Multi Core benchmark score database. The details of the Intel CPUs were collected from <https://ark.intel.com> and the details of AMD's zen architecture CPUs were collected from here.

## 3 Size of the Dataset

- 104 instances
- 10 attributes
- 1 target

## 4 The Attributes:

- CSpeed as Clock Speed in GHz
- Cores as the number of physical cores
- Cache as size of L3 cache in MB
- Brand is categorical
  - AMD = 0
  - Intel = 1
- HT is categorical meaning Hyperthreading

- No = 0
  - Yes = 1
- TB is categorical meaning Turbo Boost
  - No = 0
  - Yes = 1
- Unlocked is categorical meaning Overclockable or not
  - No = 0
  - Yes = 1
- Lithography in nano metres
- SCS as Single Core Score in Cinebench R15 points
- MCS as Multi Core Score in Cinebench r15 points
- Price in Great Britain Pounds (Target)