# Report, cv0

## Time complexity

|  |  |  |  |
| --- | --- | --- | --- |
| Network | Operation | Serial version time [s] | Parallel version time [s] |
| Penn94 | Load | 6.859 | - |
| Calculate degree of each node | 0.422 | 0.2 |
| Calculate clustering coefficient of each node | 12.442 | 2.218 |
| Calculate clustering effect | 25.995 | 6.825 |
| Calculate number of common neigbors of each node | 1204.709 | 454.358 |
| Youtube social network | Load | 41.695 | - |
| Calculate degree of each node | 3.084 |  |
| Calculate clustering coefficient of each node | 60.088 |  |
| Calculate clustering effect |  |  |
| Calculate number of common neigbors of each node |  |  |
| Proteins | Load |  |  |
| Calculate degree of each node |  |  |
| Calculate clustering coefficient of each node |  |  |
| Calculate clustering effect |  |  |
| Calculate number of common neigbors of each node |  |  |

## Network statistics

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Network | Nodes | Edges | Avg. Degree | Max. Degree | Avg. Common neighbors | Max. Common neighbors |
| Penn94 | 41536 | 1362220 | 65.59 | 4410 | 520.59 | 68097 |
| YT social network | 1134890 | 2987624 | 5.27 | 28754 |  |  |
| Proteins |  |  |  |  |  |  |

## Network visualisations

### Penn94

Obsah obrázku text, řada/pruh, diagram, Vykreslený graf

Popis byl vytvořen automaticky

Obsah obrázku text, diagram, řada/pruh, Vykreslený graf

Popis byl vytvořen automaticky

### Youtube social network

### Proteins