**Conclusions from lane wise vehicle tracking analysis.**

The following table shows the information about time taken for analyzing one minute of video for variable sleep times (which is the metric for frame rate)

|  |  |
| --- | --- |
| **sleep time (sec)** | **analysis time(sec)** |
| 0.01 | 116.00 |
| 0.02 | 155.00 |
| 0.03 | 161.00 |
| 0.04 | 200.00 |
| 0.05 | 234.00 |
| 0.06 | 260.00 |
| 0.07 | 273.00 |
| 0.08 | 290.00 |
| 0.09 | 295.00 |
| 0.10 | 335.00 |
| 0.11 | 340.00 |
| 0.12 | 346.00 |
| 0.13 | 365.00 |
| 0.14 | 375.00 |
| 0.15 | 405.00 |

From the above table it can be concluded that

1)It takes minimum of double the time for the processing the video which is streamed for particular amount of time and it is dependent upon frame rate.

2)If the frame rate is high (sleep rate is lower) the time taken for analysis is lesser but it requires a high end Graphical Processing Unit.

For our convenience we have chosen sleep time of 0.01 which would process video of 1min in just 2mins which gives an insight that the video captured from the cameras needs to be trimmed into chunks of 1min each to achieve the near real time processing of 1min time gap