

TO DO

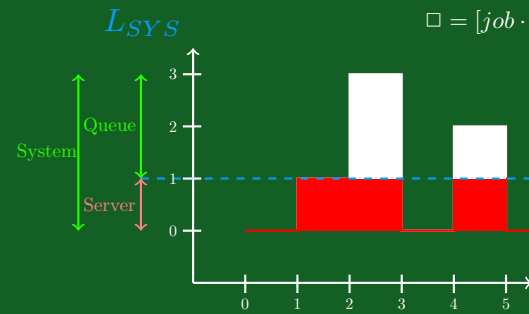
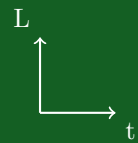
- R Course on Datacamp
- HV 1 code on GiTHUB

D.L. 2019-02-06 : 23.59

- Compute CLASS JOBS

2019-02-13 14:30

- upload HW1 (made using R)

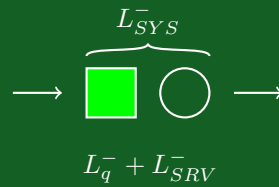


$$\square = [job \cdot time]$$

$$3) \frac{6}{5} = L_{sys}^- \left[\frac{\square}{time} = \frac{job \cdot time}{time} = jobs \right]$$

$$2) \frac{3}{5} = L_q^- \left[\frac{\square}{time} = jobs \right]$$

$$1) \frac{3}{5} = L_{SRV}^- \left[\frac{\square}{time} = jobs \right]$$



$$\boxed{L_{sys} = L_q + L_{SRV}}$$

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\documentclass[\marginparwidth = 10pt]{report}
\usepackage[utf8]{inputenc}
\usepackage{graphicx , latexsym}
\usepackage[fleqn]{amsmath}
\usepackage{tikz}
\usepackage{pgfplots}
\usepackage{multicol}
\usepackage{xcolor , pagecolor}
\usepackage{listings} % tika izmantots koda parādān
\definecolor{dgreen}{RGB}{20,95,35}
\definecolor{lblue}{RGB}{0,160,255}
\definecolor{lgreen}{RGB}{35,255,0}
\definecolor{salmon}{RGB}{255,128,128}

\usepackage{geometry}
\geometry{landscape}
\setlength\columnsep{0pt}

\title{\textcolor{white!100}{1819-108-C1-W4-01}}
\author{\textcolor{white!100}{Rainers Leons Justs}}
\date{\textcolor{white!100}{18th February 2019}}

\pgfplotsset{compat=1.15}
\setlength{\mathindent}{0cm}
\begin{document}
\pagecolor{dgreen}

\maketitle

\begin{multicols}{3}

% \begin{figure}
%     \centering
%     \includegraphics[width=\linewidth]{images/image.jpg}
%     \caption{Blackboard}

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% \end{figure}

\textcolor{white!100}{
\noindent TO DO
\begin{itemize}
\item R Course on Datacamp
\item HV 1 code on GITHUB
\end{itemize}
D.L. 2019-02-06 : 23.59
\begin{itemize}
\item Compute CLASS JOBS
\end{itemize}
2019-02-13 14:30
\begin{itemize}
\item upload HW1 (made using R)
\end{itemize}
}
\begin{tikzpicture}

\draw[thick,->, color=white] (0,0) — (1,0) node[anchor=north west] {t};
\draw[thick,->, color=white] (0,0) — (0,1) node[anchor=south east] {L};

\end{tikzpicture}

\begin{center}
\begin{tikzpicture}[thick,scale=0.69, every node/.style={scale=0.6}]

\node[scale=1.5,align=center, color=white] at (5,4) {$\Box = [\text{job} \cdot \text{time}]$};
\draw[thick,->, color=white, color=white] (-1,-1) — (5.5,-1);
\draw[thick,->, color=white] (-1,-1) — (-1,3.5) node[anchor=south east, lblue, scale=2] {$L_{\text{SYS}}$};

\draw[color=white] (1,0) — (1,1) — (2,1) — (2,3) — (3,3) — (3,0) — (4,0) — (4,2) — (5,2) — (5,0);
\draw[red] (0,0) — (1,0) — (1,1) — (3,1) — (3,0) — (4,0) — (4,1) — (5,1) — (5,0) — (5.5,0);
\fill[red] (1,0) rectangle (3,1);
\fill[red] (4,0) rectangle (5,1);
\fill[white] (2,1) rectangle (3,3);

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\fill[white] (4,1) rectangle (5,2);
\draw[blue, dashed] (-2,1) — (5.5,1);

\draw[color=lgreen, <->] (-2,3) — (-2,1);
\node[align=center, color=lgreen, scale=1.2] at (-2.6,2) {Queue};
\draw[color=salmon, <->] (-2,1) — (-2,0);
\node[align=center, color=salmon, scale=1.2] at (-2.6,0.5) {Server};
\draw[color=lgreen, <->] (-3.2,3) — (-3.2,0);
\node[align=center, color=lgreen, scale=1.2] at (-3.8,1.5) {System};

\foreach \x in {0,1,2,3,4,5}
  \draw[color=white] (\x cm,-24pt) — (\x cm,-34pt) node[anchor=north] {$\x$};
\foreach \y in {0,1,2,3}
  \draw[color=white] (-24pt,\y cm) — (-34pt,\y cm) node[anchor=east] {$\y$};

\end{tikzpicture}
\end{center}

\begin{center}
\begin{tikzpicture}[thick, scale=0.65]
\node[align=center, color=white] at (2.75,1.5) {$L_{\{SYS\}}^{\{-\}}$};
\draw[color=white, ->] (0,0) — (1,0);
\filldraw[fill=green, draw=white] (1.5,-0.5) rectangle (2.5,0.5);
\draw[color=white] (1.5,0.75) .. controls (1.5,0.95) and (2.75,0.8) .. (2.75,1);
\draw[color=white] (2.75,1) .. controls (2.75,0.8) and (4,0.95) .. (4,0.75);
\draw[color=white] (3.5,0) circle (0.5cm);
\draw[color=white, ->] (4.5,0) — (5.5,0);
\node[align=center, color=white] at (2.8,-1.5) {$L_{\{q\}}^{\{-\}} + L_{\{SRV\}}^{\{-\}}$};

\end{tikzpicture}
\end{center}

% $$L_{\{q\}}^{\{-\}} + L_{\{SRV\}}^{\{-\}}$$

\begin{itemize}
  \textcolor{white!100}{

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