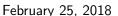
Resource Allocation in Cloud Radio Access Network Presentation on 4th year project progress

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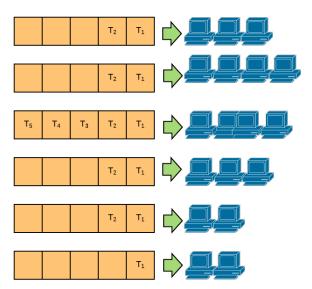




Proposed Model



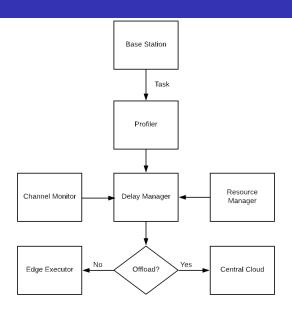
Queueing Model







Flowchart







Proposed Delay Calculation Formula

$$T_{EC} = t_{
m exe}^{EC} + t_{waiting}^{EC} + t_{VM}^{EC}$$
 creation $T_{CC} = t_{
m exe}^{CC} + t_{trans}^{CC}$

We will calculate T_{exe} using the total number of required CPU cycles to complete a task. And $T_{waiting}$ using the Queueing theory.





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Proposed Delay Calculation Formula

$$\begin{split} \mathcal{K}^{\mathsf{EC}} &= \lambda^t t^{\mathsf{EC}} + \lambda^e e^{\mathsf{EC}} \\ \mathcal{K}^{\mathsf{CC}} &= \lambda^t (t^{\mathsf{CC}}_{\mathit{off}} + t^{\mathsf{CC}}_{\mathit{exe}}) + \lambda^e e^{\mathsf{CC}}_{\mathit{off}} \\ & (\mathsf{Computation} \; \mathsf{Cost} \; [\mathbf{AnnaV.Guglielmiieee2018}]) \end{split}$$

Where, $\lambda^t, \lambda^e \in [0, 1]$

$$G = (1 - \alpha) \times G_1 + \alpha \times G_2$$

(tradeoff matric [journals/monet/KhodaRAHAA16])

Where, G_1 and G_2 is gain/loss achieved in time and energy, respectively. $0 < \alpha < 1$





References





Thank You



