An Integrated Network Modeling Framework for Analysis of Multi-line Order Pick Systems
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Questions for technology selection:
• Which system is better for multi-line orders?
• How do we analyze performance?
• Are existing analytical models sufficient?

Existing models are typically isolated, analyze only upstream storage system

System Description

Upstream: Closed Queuing Network

Downstream: Inspiration from Assembly Synchronization Networks

Full Model

Preliminary Insights

Future Work and Reference

Reference:
E. Tappia, D. Roy, M. Metacini, and R. De Koster, “Integrated storage order picking systems: technology, performance models, and design insights,” unpublished

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