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Rejecting jobs to minimize load and maximum flow-time

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Highlights

- A novel rejection model proposed for online job scheduling where online algorithm is allowed to not serve an ϵ -fraction of the requests.
- We consider the restricted assignment setting where each job can be assigned only to a subset of machines.
- $O(\log^2 1/\epsilon)$ -competitive algorithm presented for minimizing the maximum load on any machine.
- $O(1/\epsilon^4)$ -competitive algorithm presented for the problem of minimizing the maximum weighted flow-time.
- Above result can be extended for the objective of minimizing the maximum stretch.

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