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Fast approximation algorithms for uniform machine scheduling with processing set restrictions

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Highlights

- We consider the problem of scheduling n jobs on m uniform machines.
- The jobs are subject to inclusive or tree-hierarchical processing set restrictions.
- We propose fast approximation algorithms to solve the problem.
- It is shown that the algorithms have a worst-case ratio no more than 4/3.
- The 4/3 bound is achievable in both cases.

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