Flow-shop problems with nowait

- **maximal polynomially solvable:**

  $F2|no-wait|C_{max}$ Gilmore & Gomory (1964) [1], Reddi & Ramamoorthy (1972) [2]

- **minimal NP-hard:**
  - $F2|r_i; no-wait|C_{max}$ Roeck (1984) [3]
  - $F3|no-wait|C_{max}$ Roeck (1984A) [4]
  - $F2|no-wait|L_{max}$ Roeck (1984) [3]
  - $F2|no-wait|\sum C_i$ Roeck (1984) [3]

- **minimal open:**

  $F2|chains; no-wait|C_{max}$

- **maximal open:**

  $F2|prec; no-wait|C_{max}$

References

[1] P.C. Gilmore and R.E. Gomory. Sequencing a one state-variable machine: A solvable case of the traveling salesman problem. *Oper. Res.*, 12:655–679, 1964.

[2] S.S. Reddi and C.V. Ramamoorthy. On the flow-shop sequencing problem with no wait in process. *Operational Res. Quart.*, 23:323–331, 1972.

[3] H. Röck. Some new results in flow shop scheduling. *Z. Oper. Res. Ser. A-B*, 28(1):1–16, 1984.

[4] H. Röck. The three-machine no-wait flow shop is NP-complete. *J. Assoc. Comput. Mach.*, 31(2):336–345, 1984.