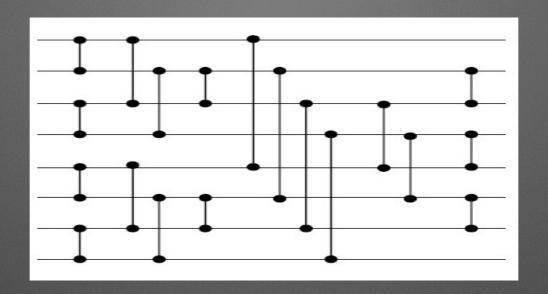
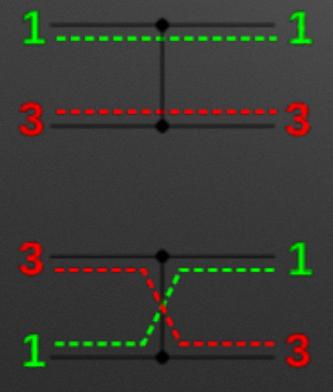
Sorteernetwerken van Optimale Grootte

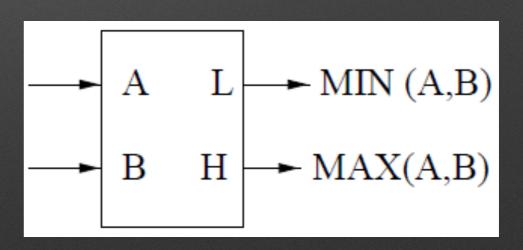
Mathias Dekempeneer Vincent Derkinderen

Begeleider: Tom Schrijvers

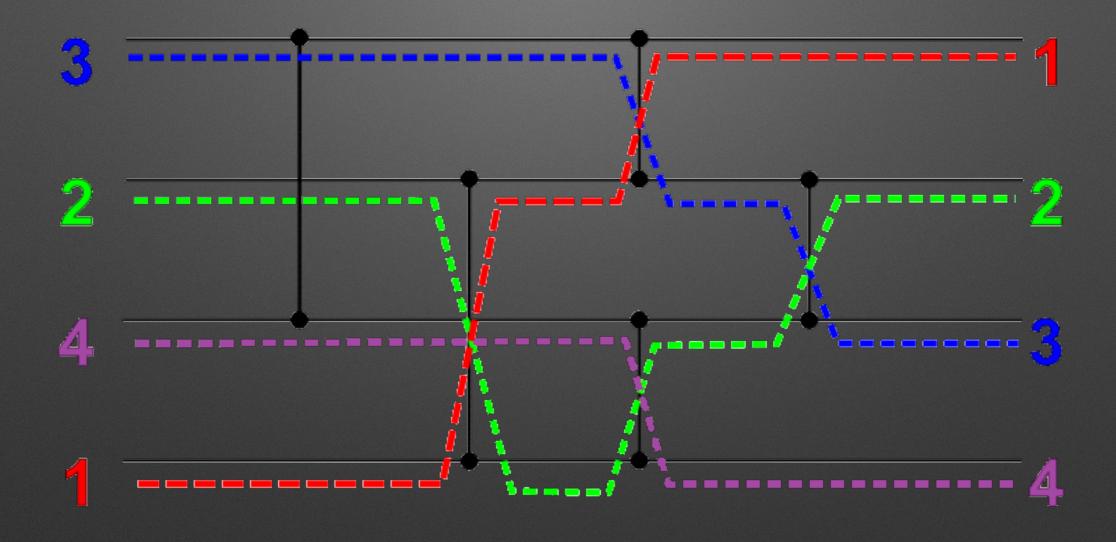
Comparator Netwerk





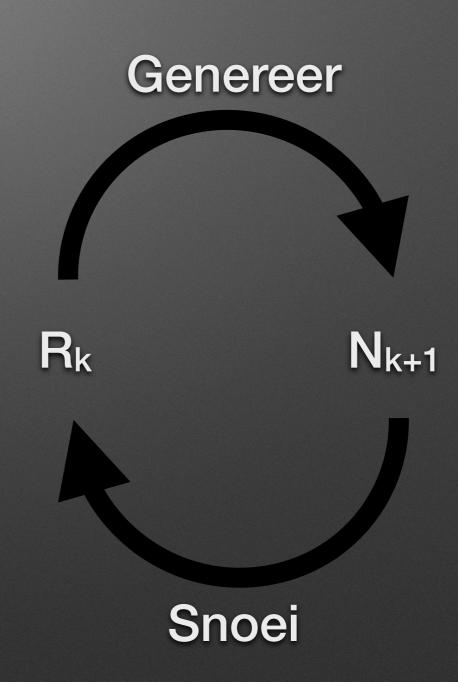


Sorteernetwerk

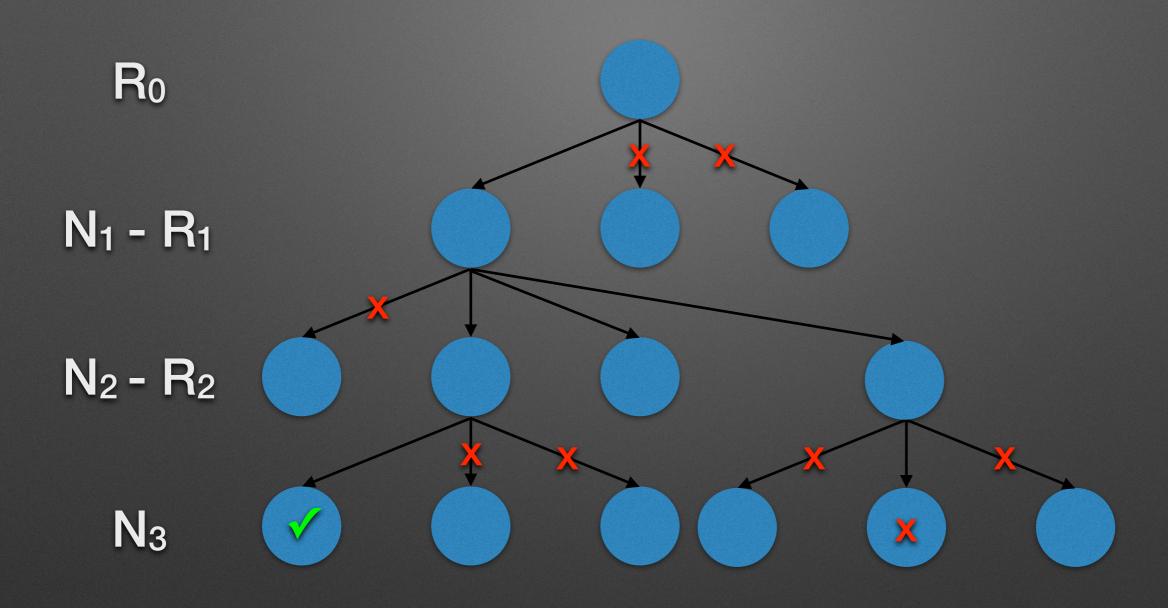


Genereer & Snoei

- Genereer: toevoegen alle mogelijke comparatoren
- Snoei: subsumes principe



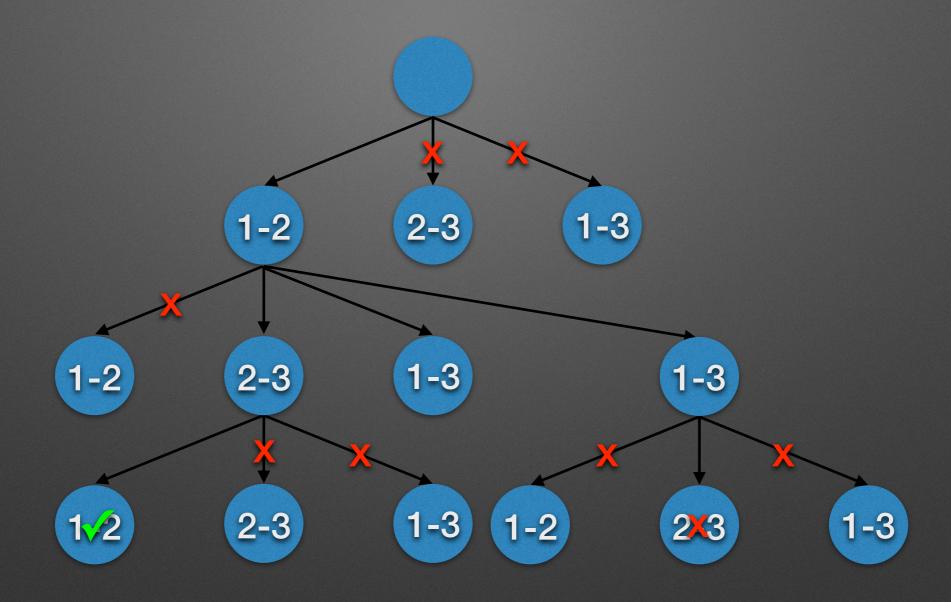
Genereer & Snoei



Subsumes

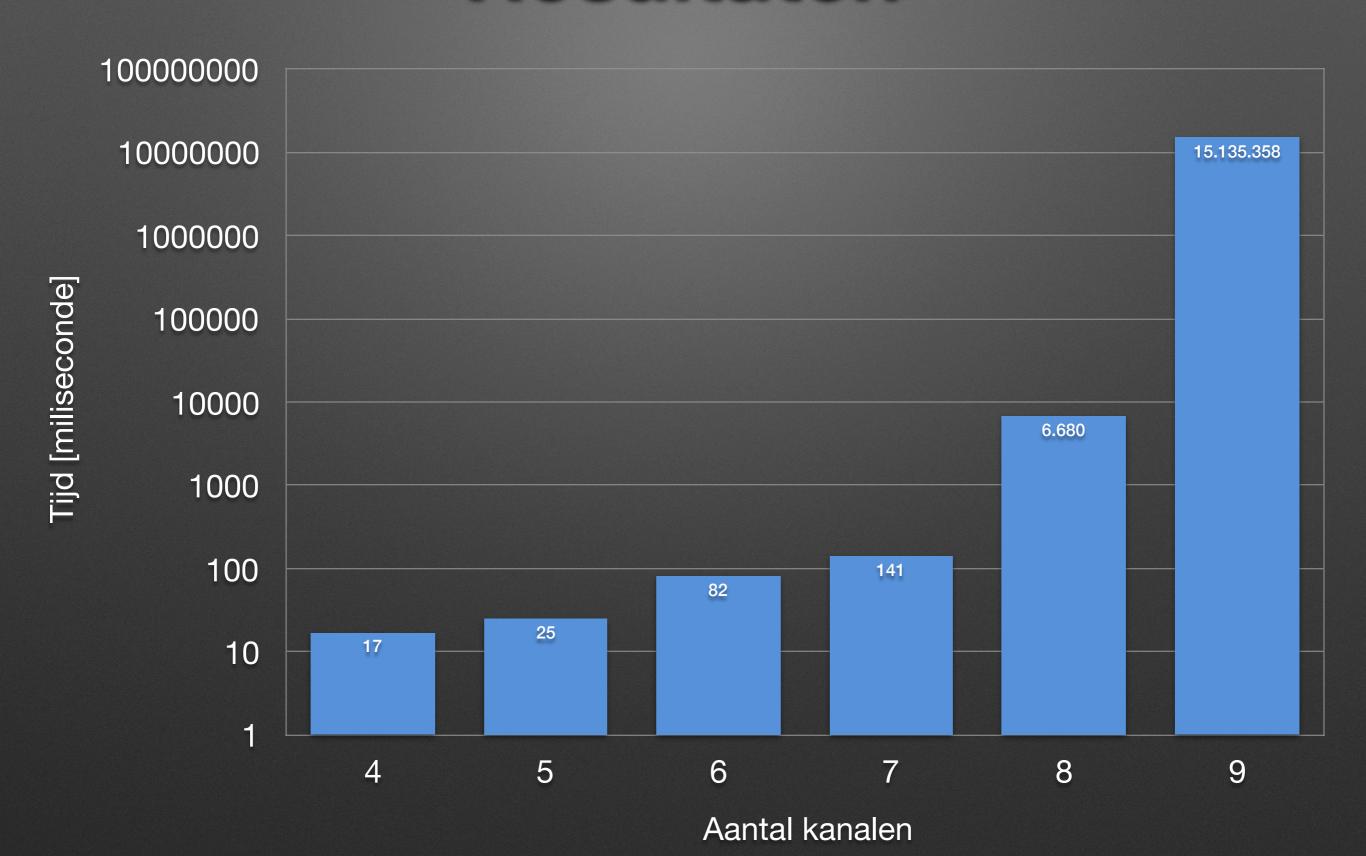
- Beschreven in "Twenty-Five Comparators is Optimal when Sorting Nine Inputs (and Twenty-Nine for Ten)" (Codish et al.)
- C_a subsumes C_b ⇔ C_a wordt gedekt door C_b
- Verwijder de netwerken die anderen dekken

Genereer & Snoei

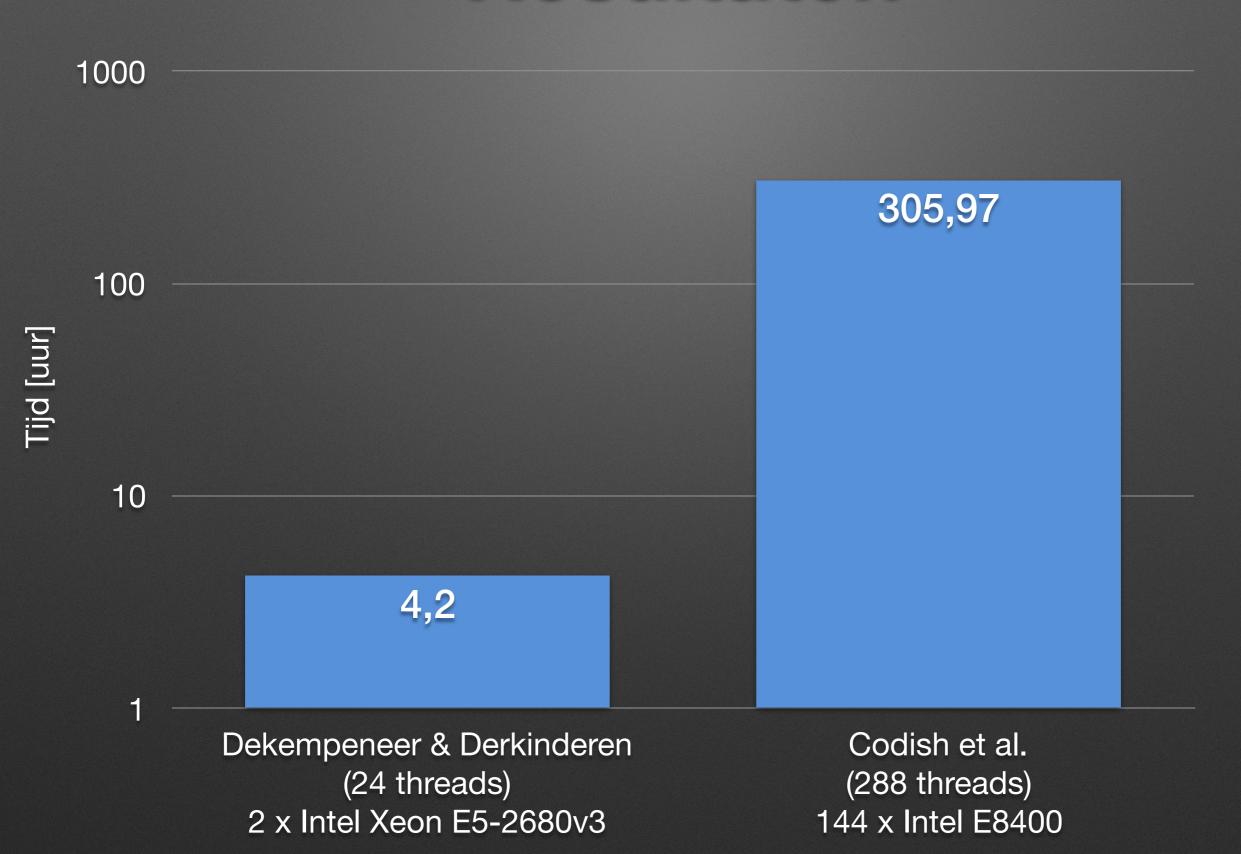


Gevonden sorteernetwerk: (1-2) (2-3) (1-2)

Resultaten



Resultaten



Conclusie

WAT?

Resultaten van de paper gereproduceerd

WAT VOLGT?

Bekijken reden van verbetering

Implementatie voor meerdere nodes

Verbeteringen voor het algoritme zoeken