Chair of Network Architectures and Services
School of Computation, Information, and Technology
Technical University of Munich

TUT

Advanced Computer Networking (ACN)

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Sorting

- **Longest** Prefix Matching
- → Most specific routes superseed less specific routes
- → Sort input according to prefix length (start with the shortest/least specific route)
- → Start building routing table after all routes are known

NULL-routes

- Routing table must be able to detect if no route exists
- → NULL entries should be possible
- Some implementations did support NULL entries in `tbl24` but not in `tbllong`

Transfer between tables

- Existing table entries for `tbl24` must be transferred to `tbllong` if routes with prefix smaller than /24 are added
- → Prefill `tbllong` with entries from `tbl24`
- → Insert into `tbllong` after prefill