

0.1 Paramètres

- GTNetS, OSPF avec extensions OR et OSPF-MPR.
- OSPF-MPR avec **full and reduced LSA**, multicast retransmission et adjacence reduction **avec noeud synchroniseur**.
- Full IEEE802.11b : seuil bonne réception (40m, 60m, ..., 300m), $\alpha = 0.5$.
- Taille du terrain : 500m $\times$ 500m.
- Nb noeuds : 20, 30, 40, 50.
- Noeuds aléatoirement localisés sur terrain, avec distribution uniforme.
- **Mobilité** : RWP, vitesse max 16m/s, pause 1s.
- HelloInterval : 2s.
- DeadInterval : 6s.
- RxmtInterval : 7s.
- MinLSInterval : 5s.
- MinLSArrival : 1s.
- AckInterval : 500ms.

0.2 Méthodes

1. Pour OR : full LSA, full synchronisation, OR retransmissions.
2. Pour OSPF-MPR :
 - (a) Full LSA, full synchro, multicast.
 - (b) LSA reduc, full synchro, multicast, **backlink check**.
 - (c) LSA reduc, Adj reduc **avec noeud synchroniseur**, multicast, **backlink check**.
3. Comparer l'overhead total et delivery ratio.

0.3 Résultats

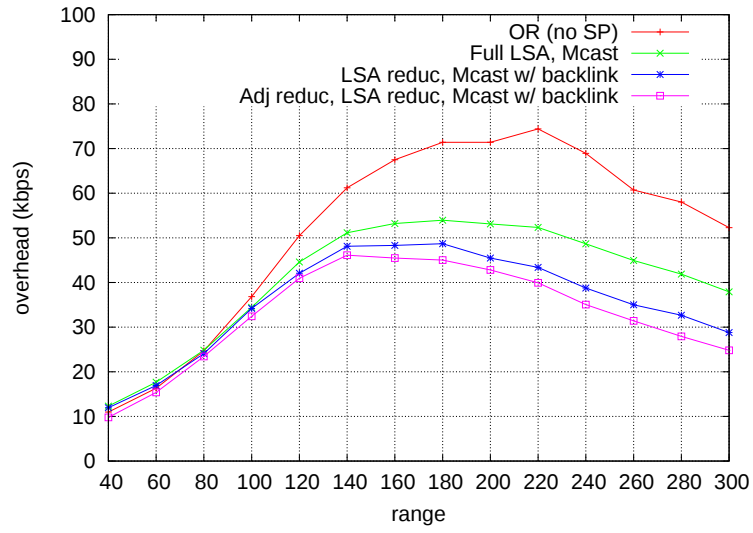


FIG. 1 – overhead pour 20 noeuds.

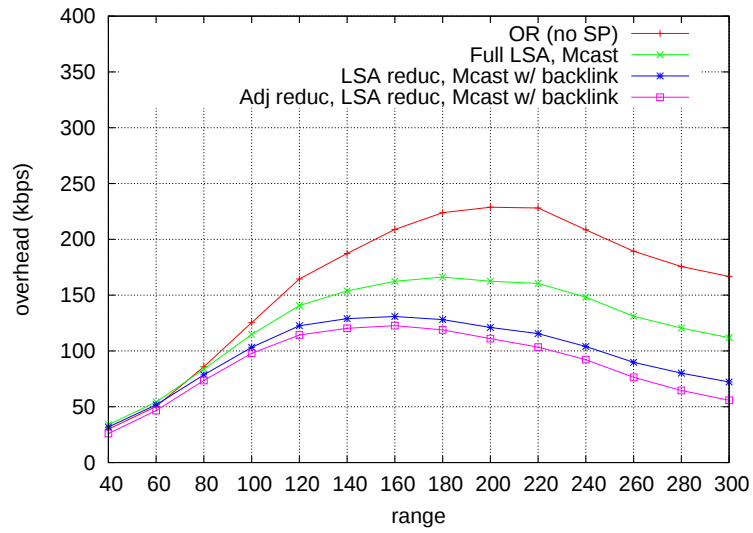


FIG. 2 – overhead pour 30 noeuds.

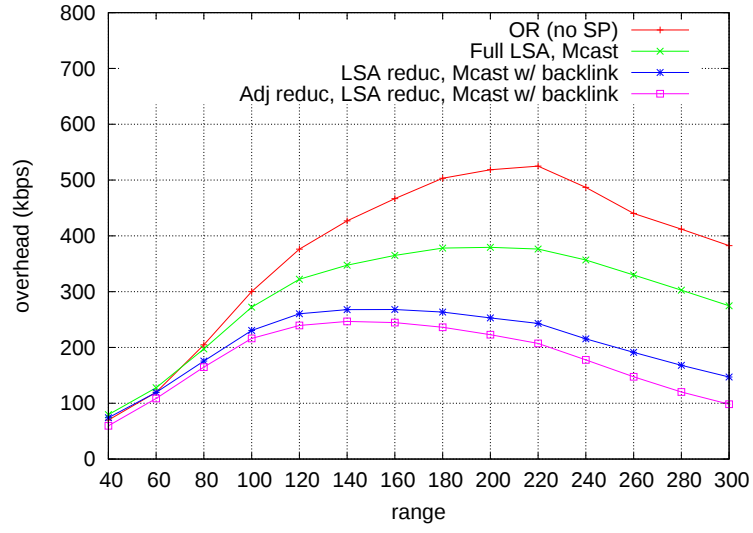


FIG. 3 – overhead pour 40 noeuds.

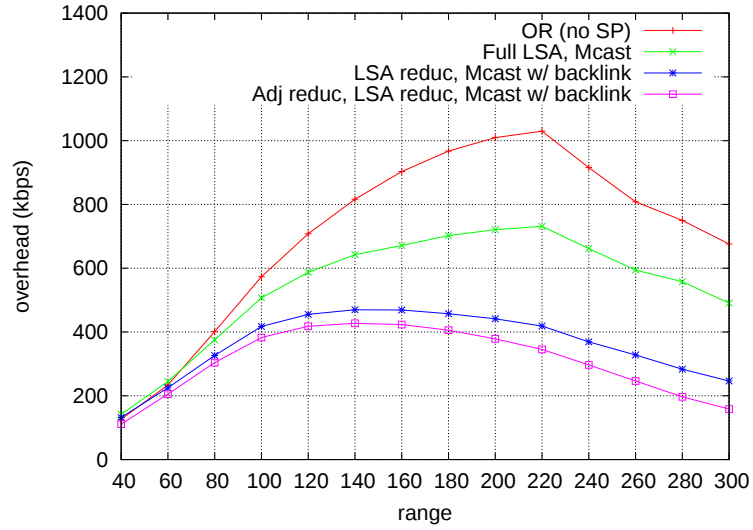


FIG. 4 – overhead pour 50 noeuds.

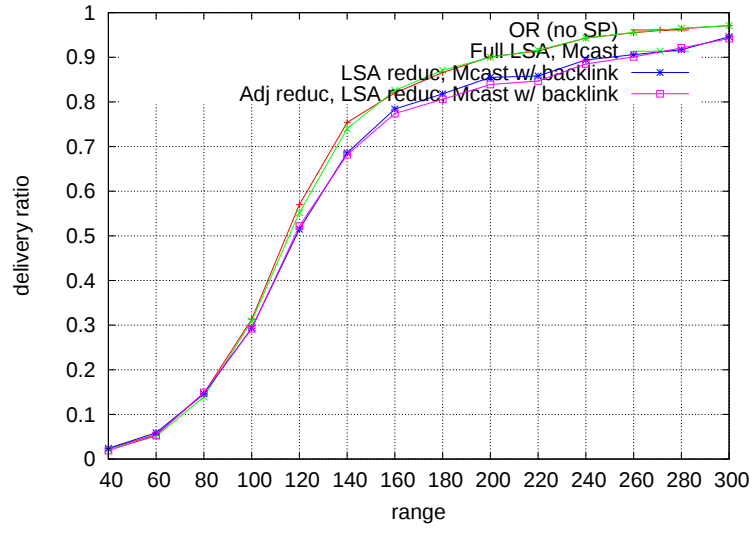


FIG. 5 – delivery ratio pour 20 noeuds.

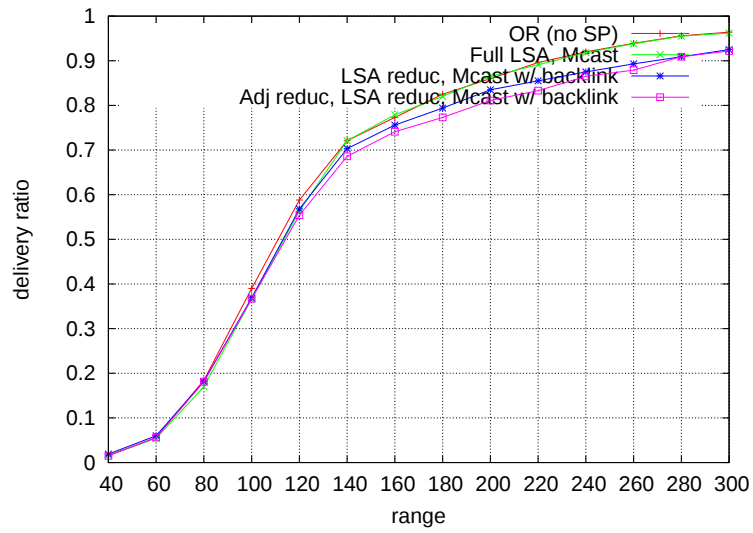


FIG. 6 – delivery ratio pour 30 noeuds.

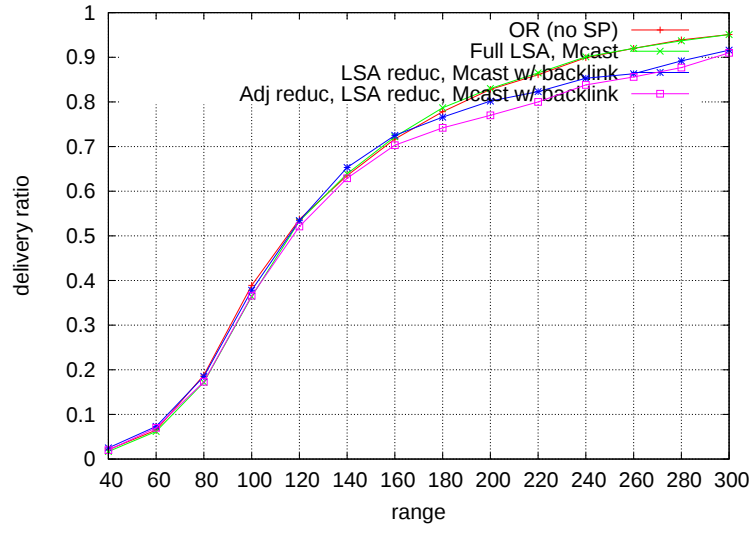


FIG. 7 – delivery ratio pour 40 noeuds.

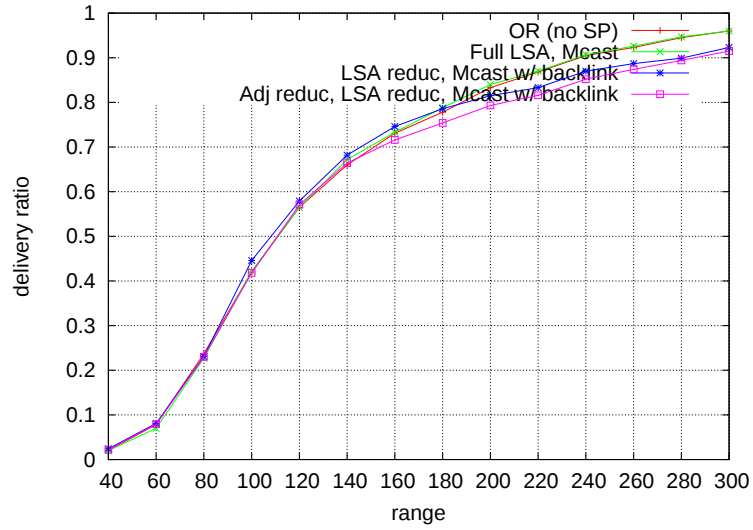


FIG. 8 – delivery ratio pour 50 noeuds.