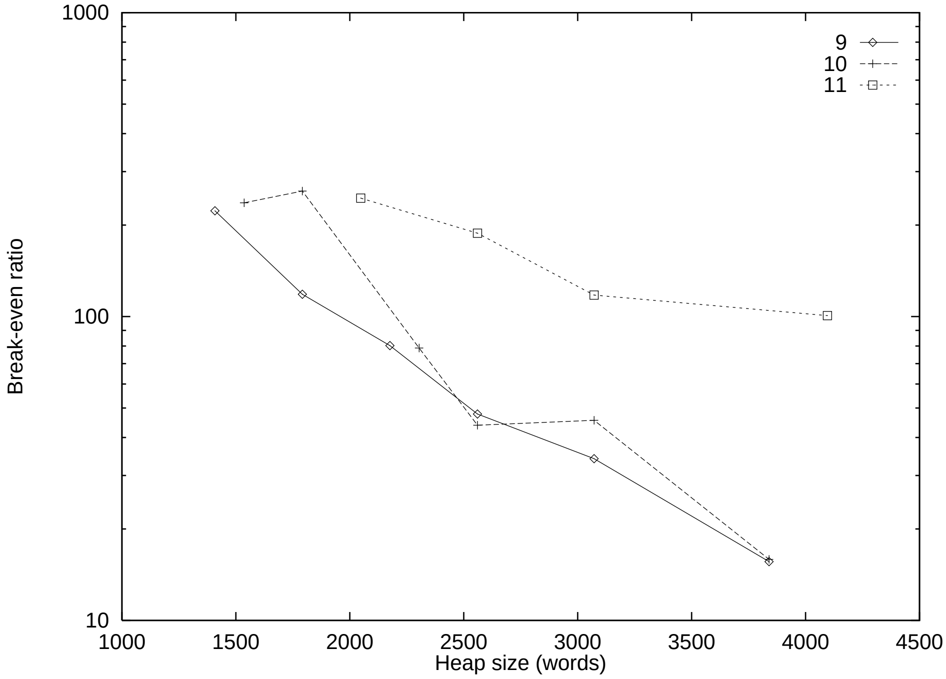


Figure 6.1. Copying and pointer cost tradeoff: Interactive-AllCallsOn.

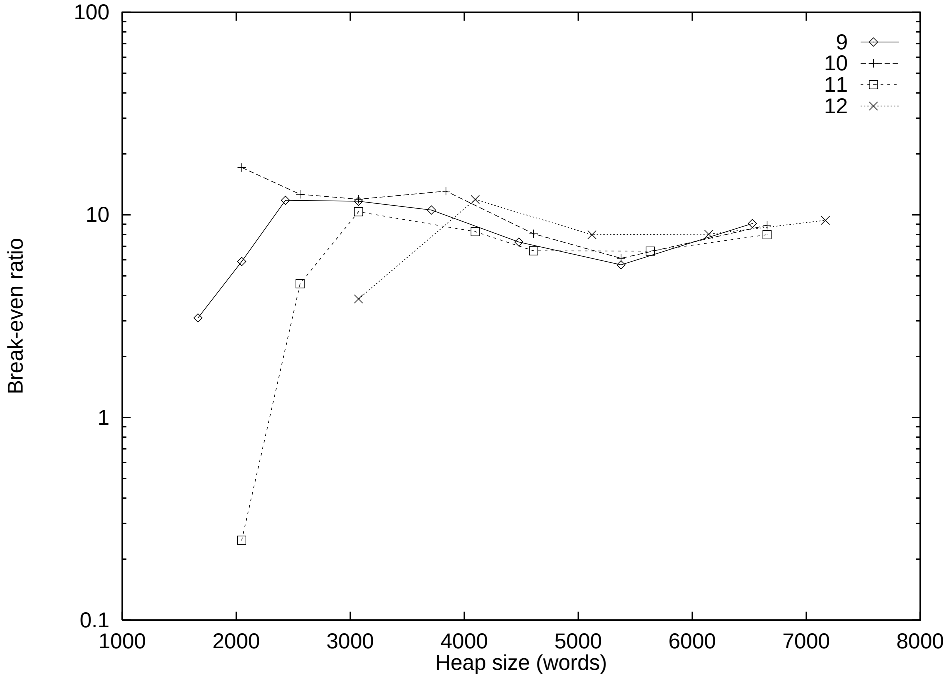


Figure 6.2. Copying and pointer cost tradeoff: Interactive-TextEditing.

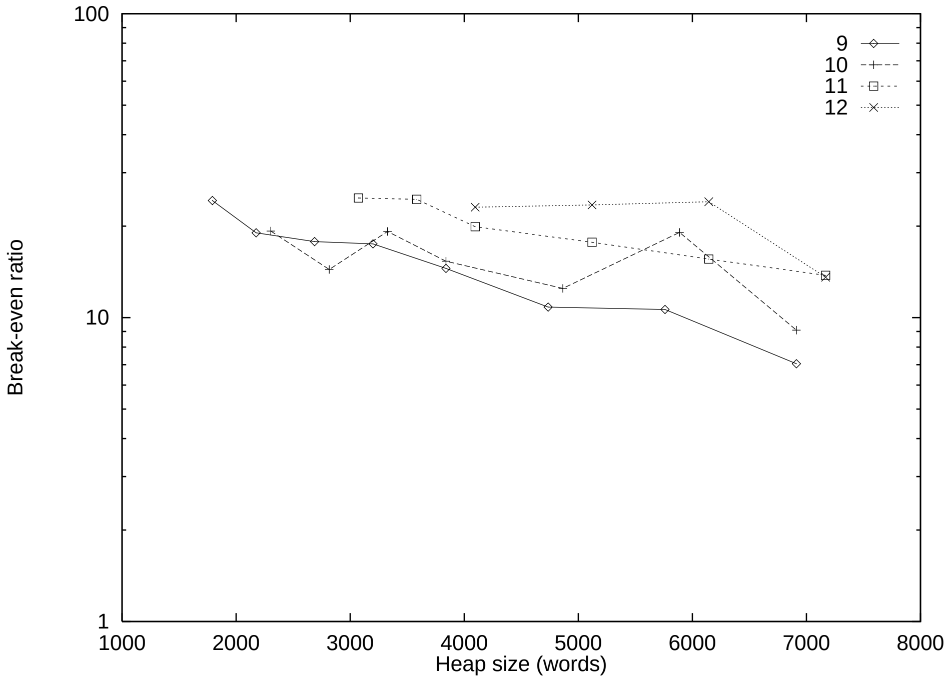


Figure 6.3. Copying and pointer cost tradeoff: StandardNonInteractive.

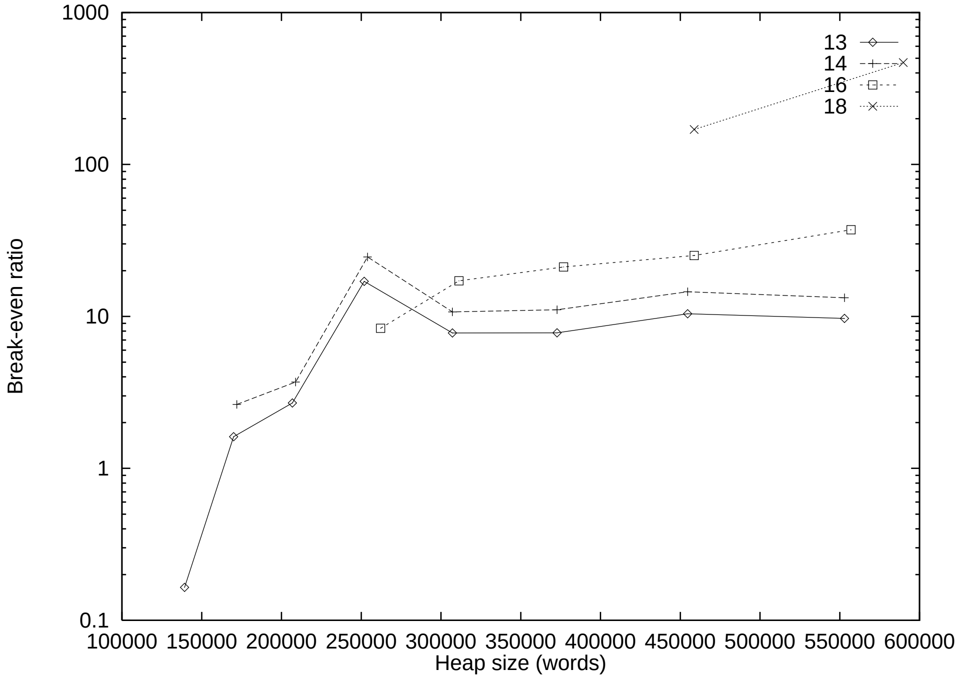


Figure 6.4. Copying and pointer cost tradeoff: HeapSim.

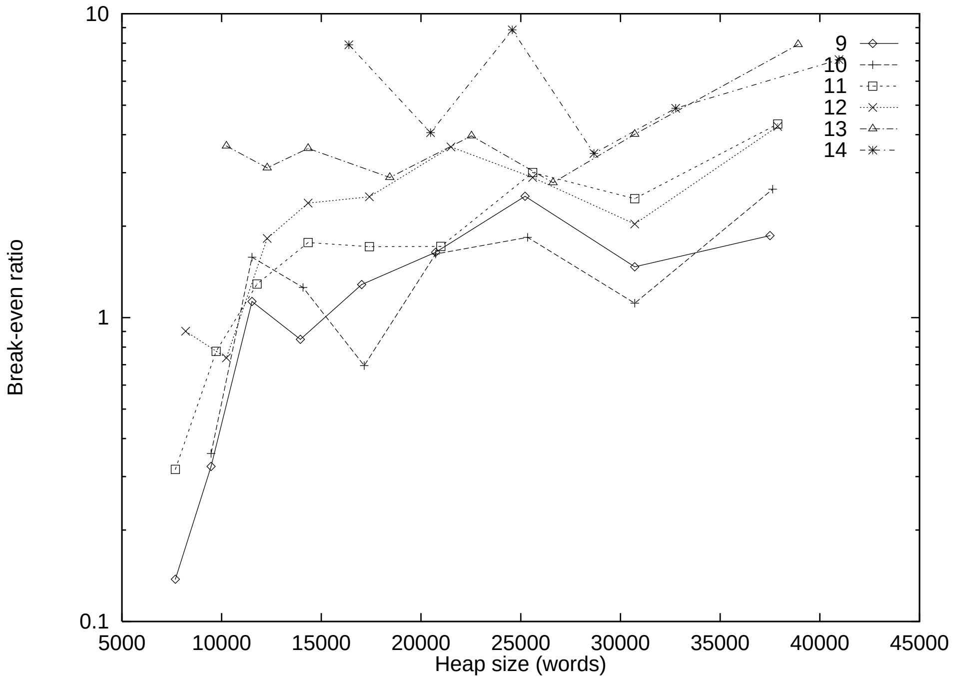


Figure 6.5. Copying and pointer cost tradeoff: Lambda-Fact5.

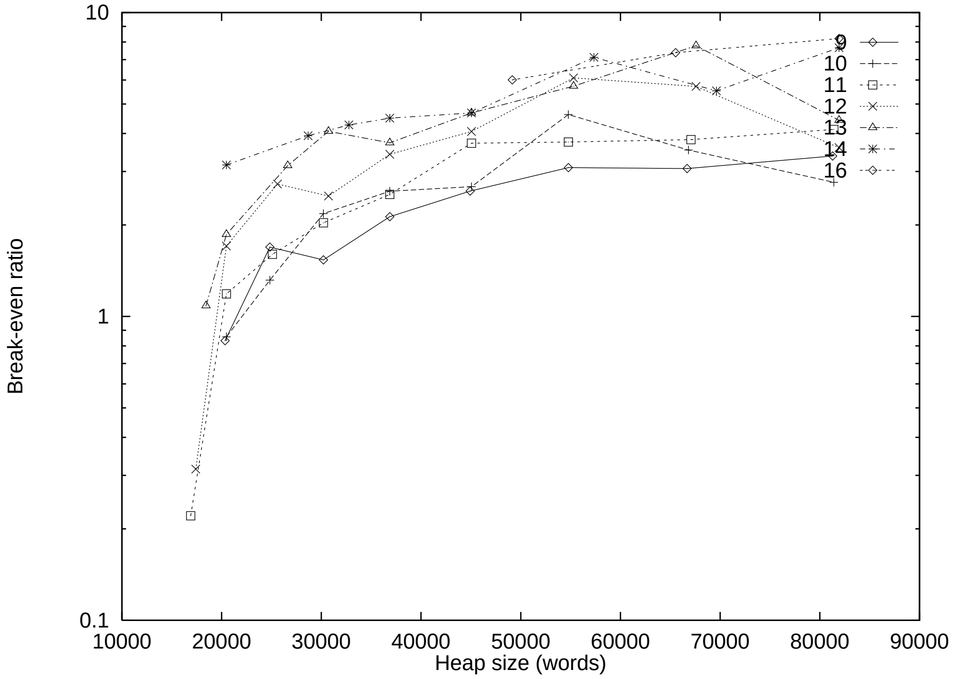


Figure 6.6. Copying and pointer cost tradeoff: Lambda-Fact6.

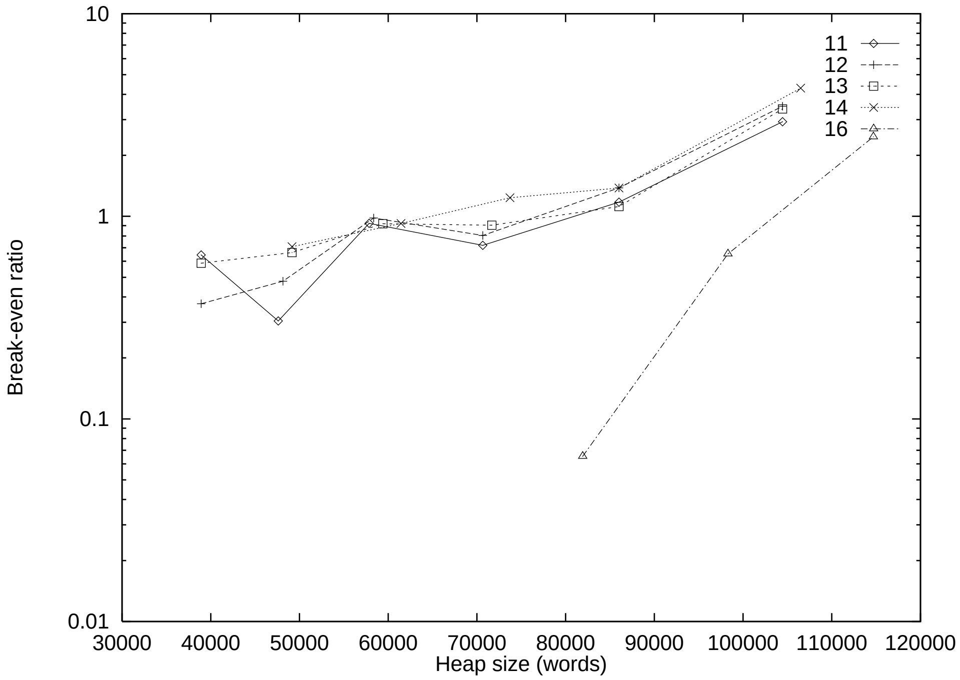


Figure 6.7. Copying and pointer cost tradeoff: Swim.

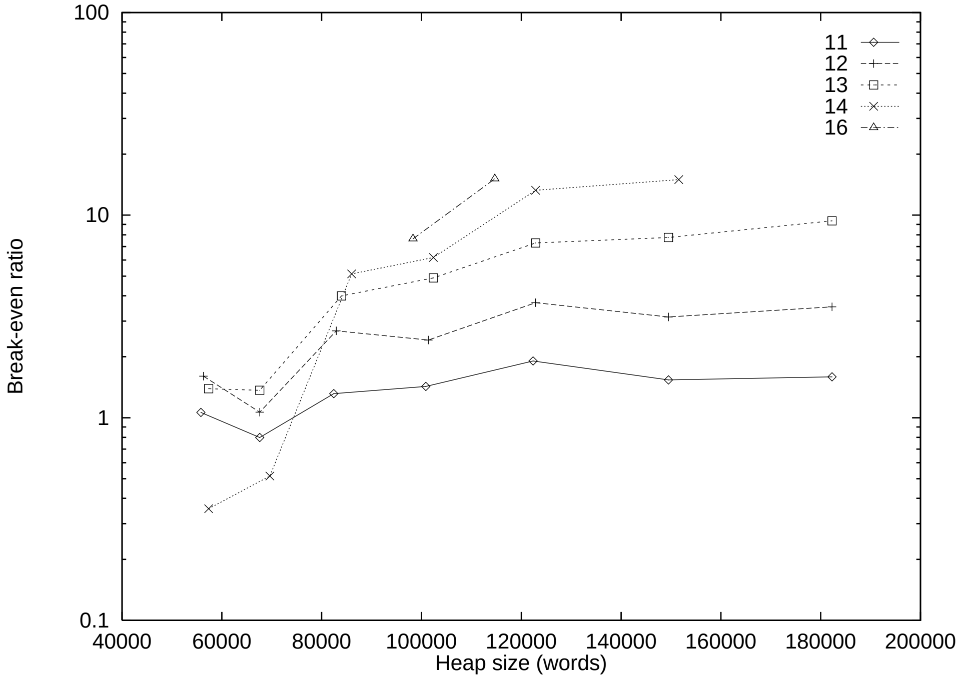


Figure 6.8. Copying and pointer cost tradeoff: Tomcatv.

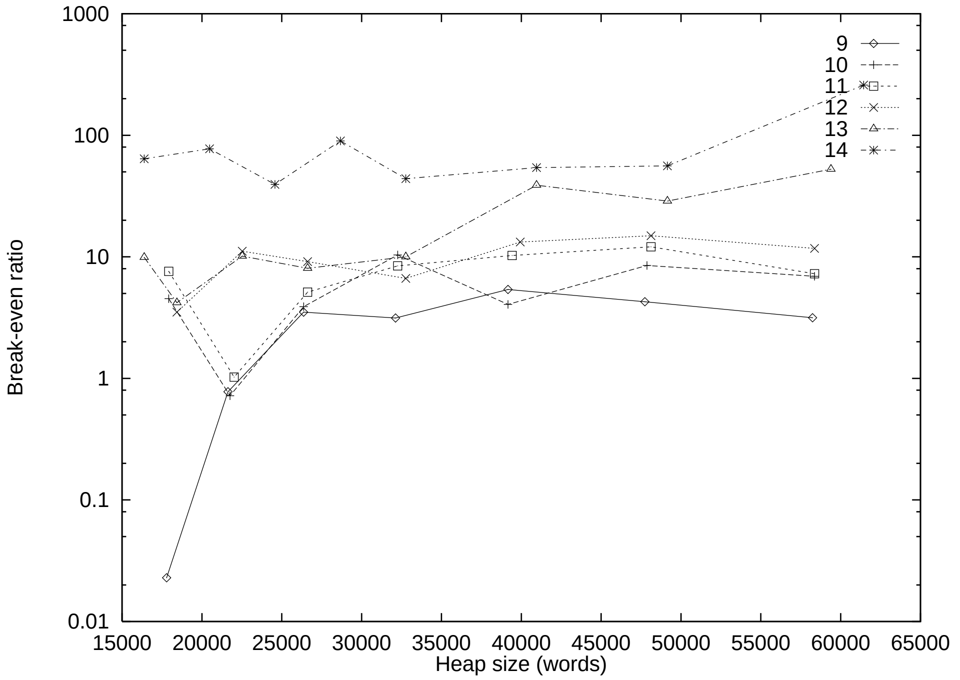


Figure 6.9. Copying and pointer cost tradeoff: Tree-Replace-Binary.

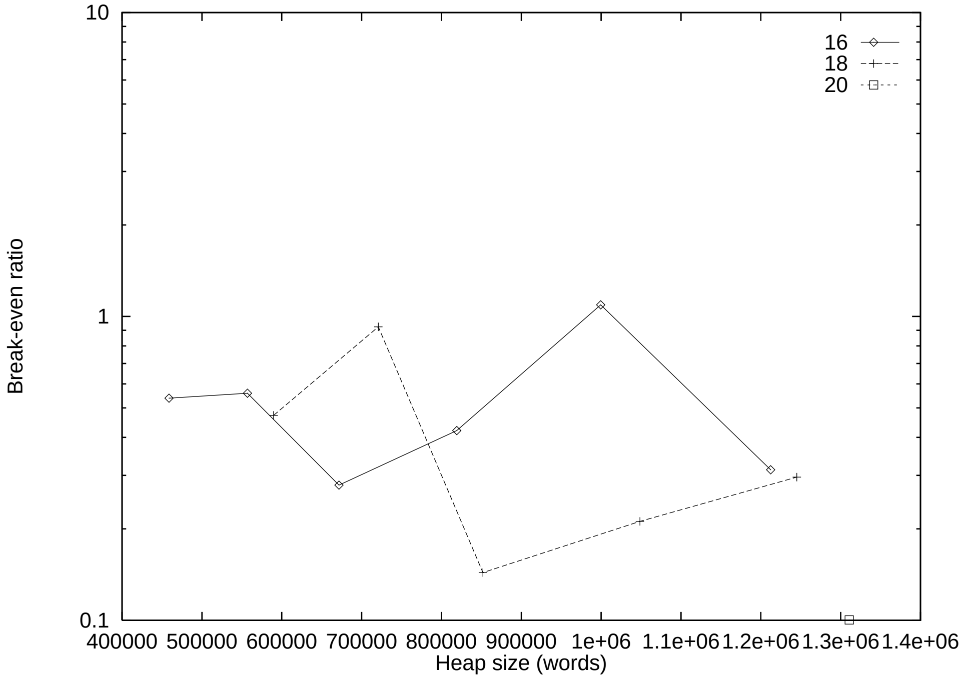


Figure 6.10. Copying and pointer cost tradeoff: Bloat-Bloat.

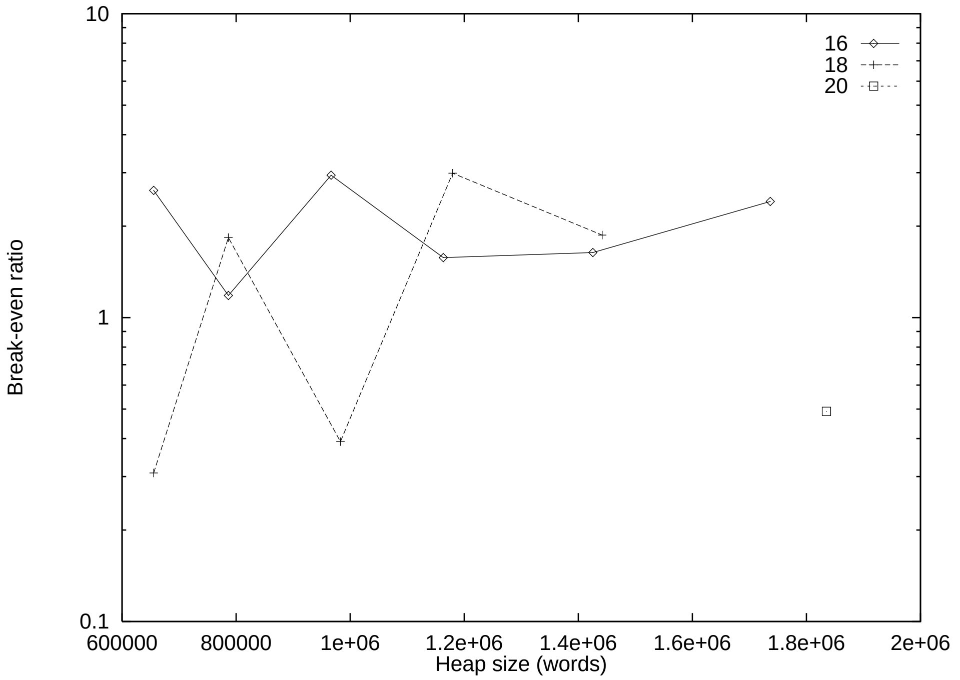
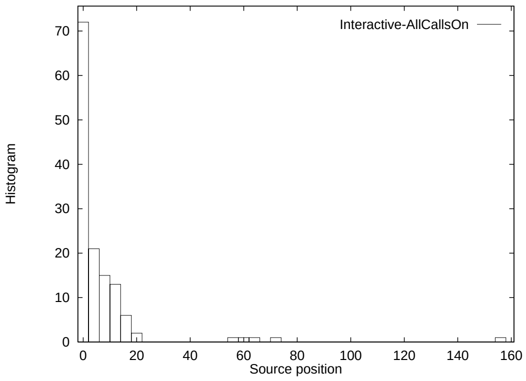
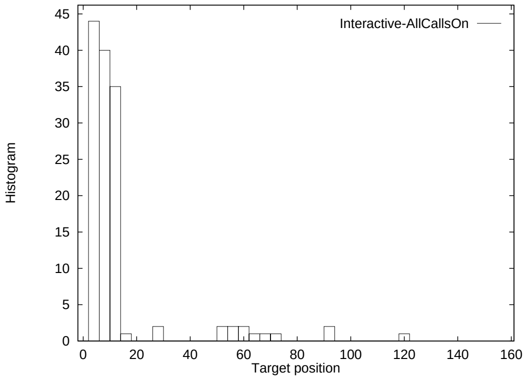


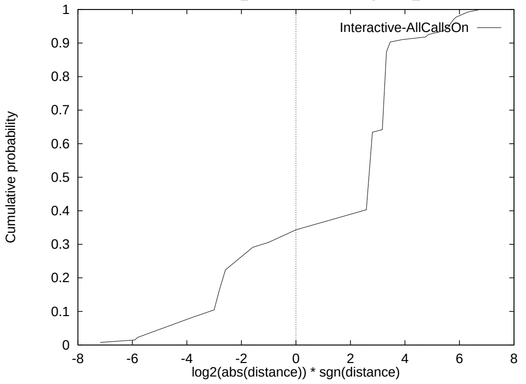
Figure 6.11. Copying and pointer cost tradeoff: Toba.



(a) Distribution of pointer source positions

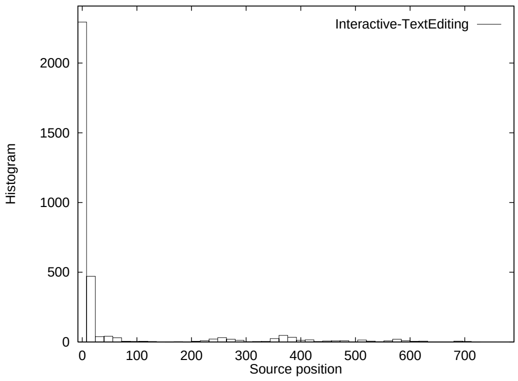


(b) Distribution of pointer target positions

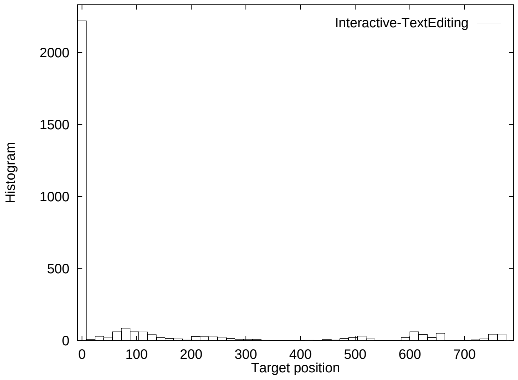


(c) Distribution of pointer distances

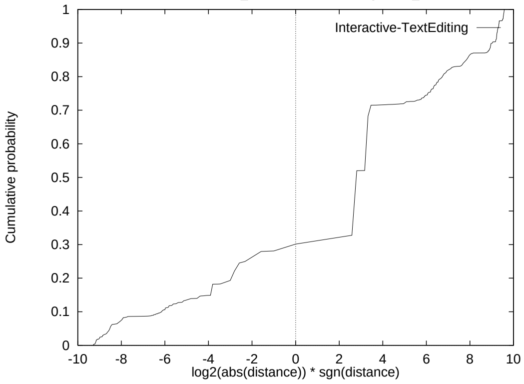
Figure 6.12. Pointer store heap position: Interactive-AllCallsOn.



(a) Distribution of pointer source positions

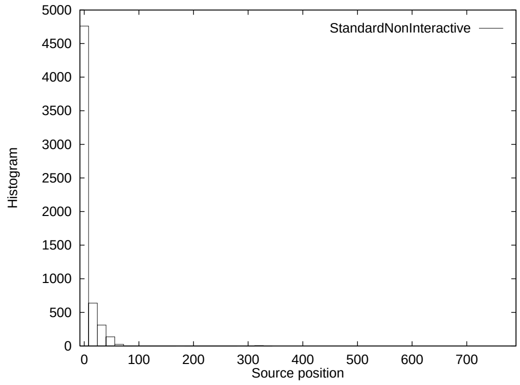


(b) Distribution of pointer target positions

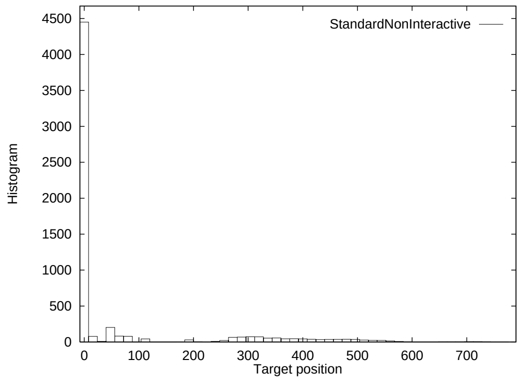


(c) Distribution of pointer distances

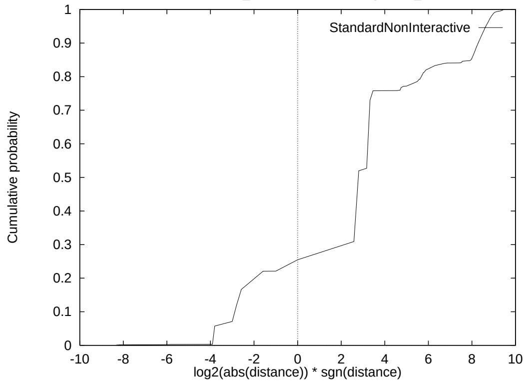
Figure 6.13. Pointer store heap position: Interactive-TextEditing.



(a) Distribution of pointer source positions

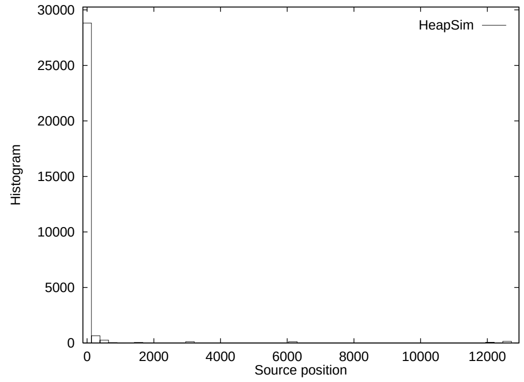


(b) Distribution of pointer target positions

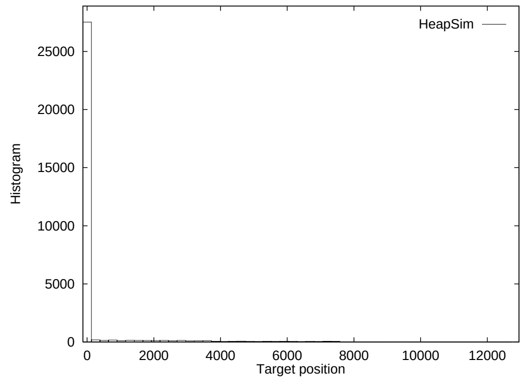


(c) Distribution of pointer distances

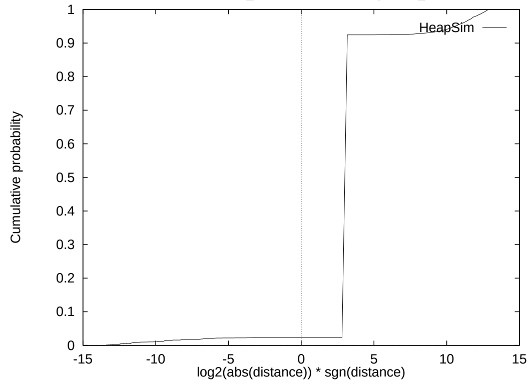
Figure 6.14. Pointer store heap position: StandardNonInteractive.



(a) Distribution of pointer source positions

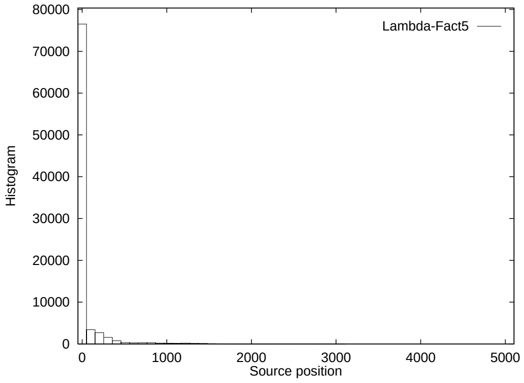


(b) Distribution of pointer target positions

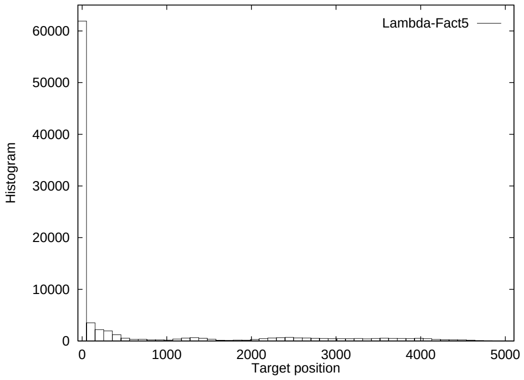


(c) Distribution of pointer distances

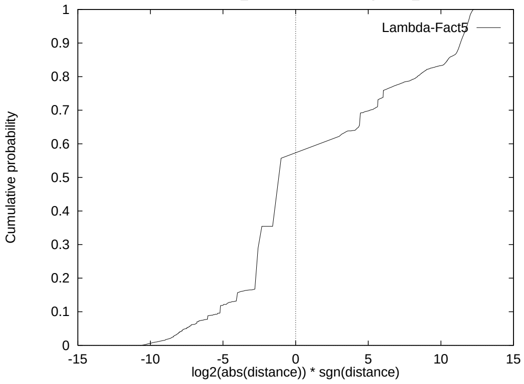
Figure 6.15. Pointer store heap position: HeapSim.



(a) Distribution of pointer source positions

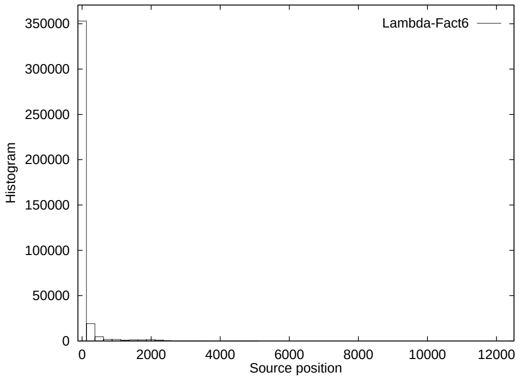


(b) Distribution of pointer target positions

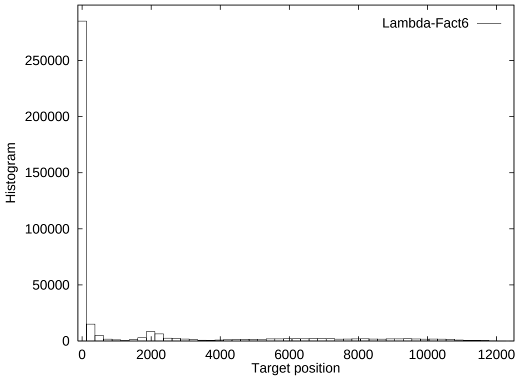


(c) Distribution of pointer distances

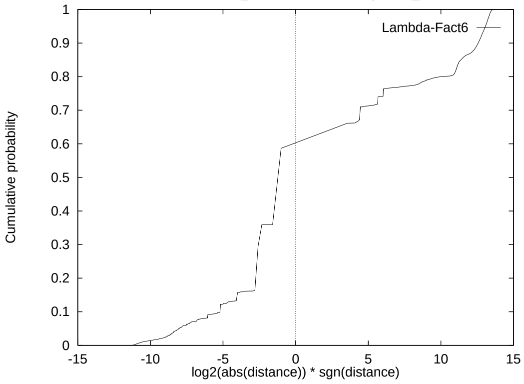
Figure 6.16. Pointer store heap position: Lambda-Fact5.



(a) Distribution of pointer source positions

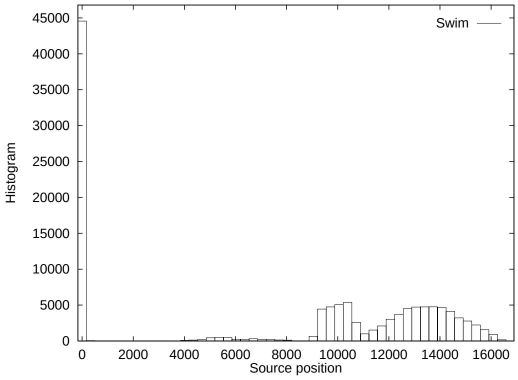


(b) Distribution of pointer target positions

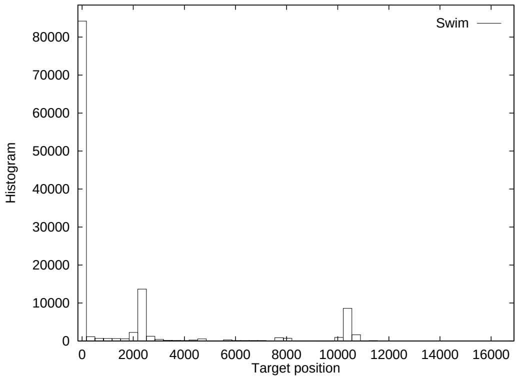


(c) Distribution of pointer distances

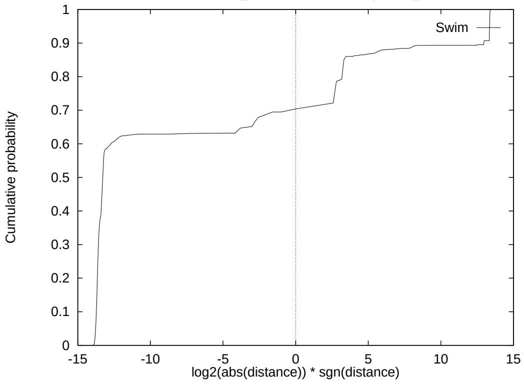
Figure 6.17. Pointer store heap position: Lambda-Fact6.



(a) Distribution of pointer source positions

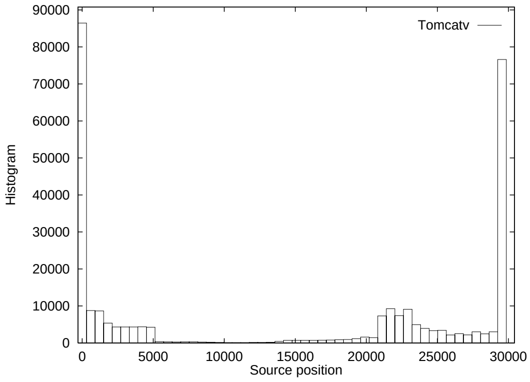


(b) Distribution of pointer target positions

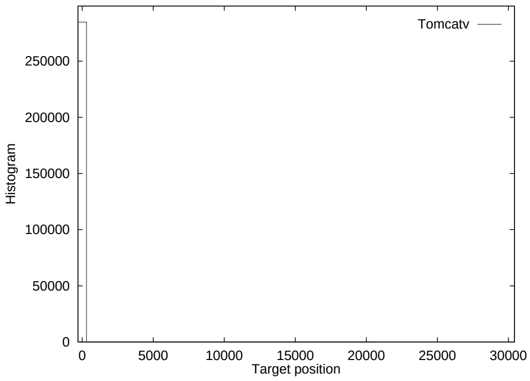


(c) Distribution of pointer distances

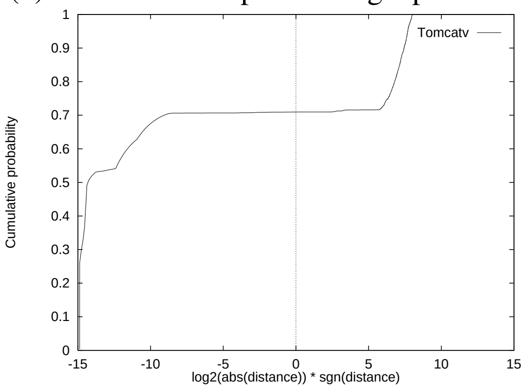
Figure 6.18. Pointer store heap position: Swim.



(a) Distribution of pointer source positions

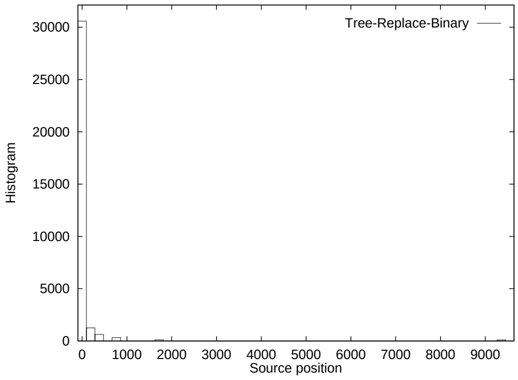


(b) Distribution of pointer target positions

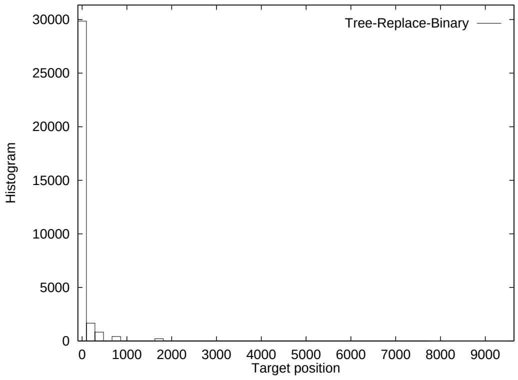


(c) Distribution of pointer distances

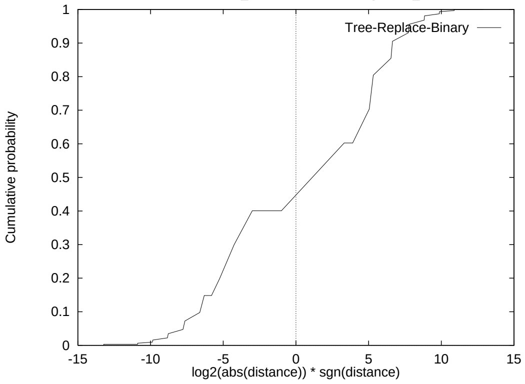
Figure 6.19. Pointer store heap position: Tomcatv.



(a) Distribution of pointer source positions

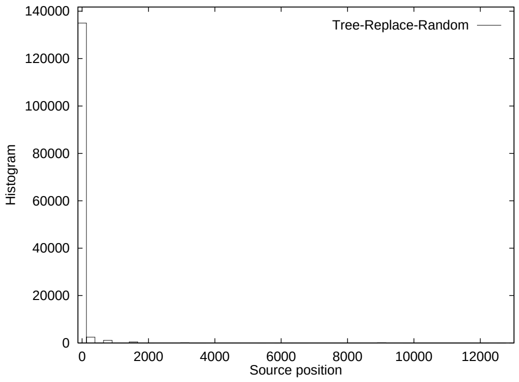


(b) Distribution of pointer target positions

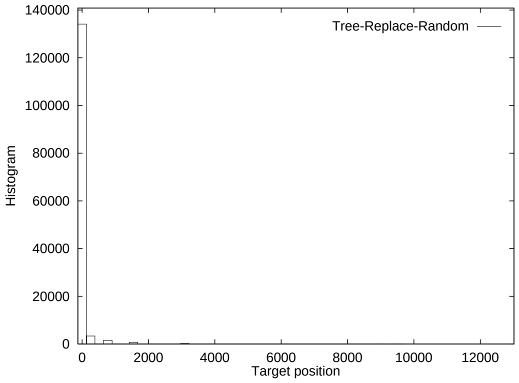


(c) Distribution of pointer distances

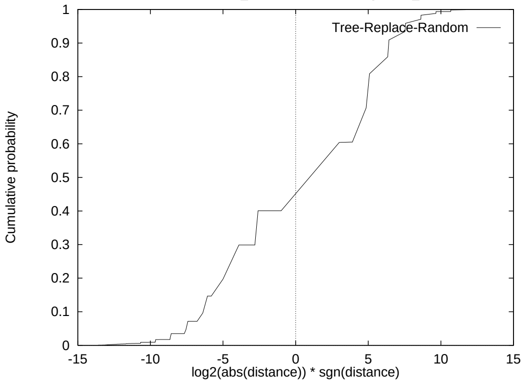
Figure 6.20. Pointer store heap position: Tree-Replace-Binary.



(a) Distribution of pointer source positions

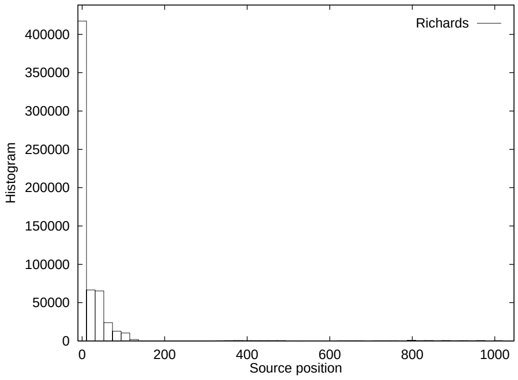


(b) Distribution of pointer target positions

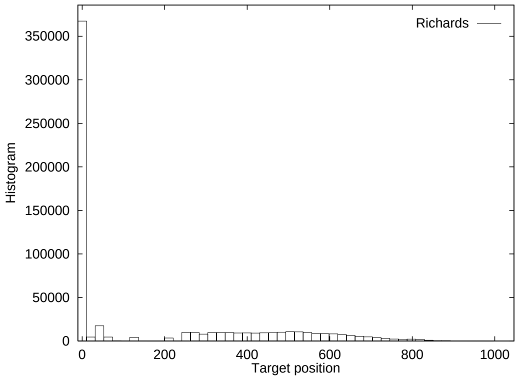


(c) Distribution of pointer distances

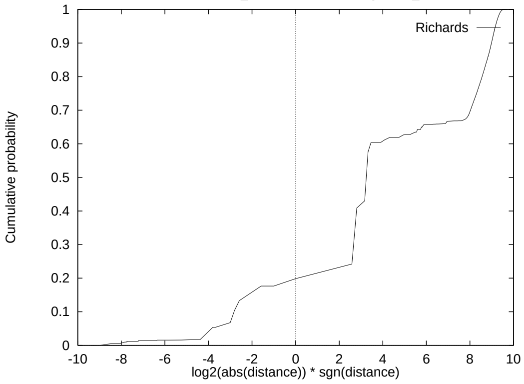
Figure 6.21. Pointer store heap position: Tree-Replace-Random.



(a) Distribution of pointer source positions

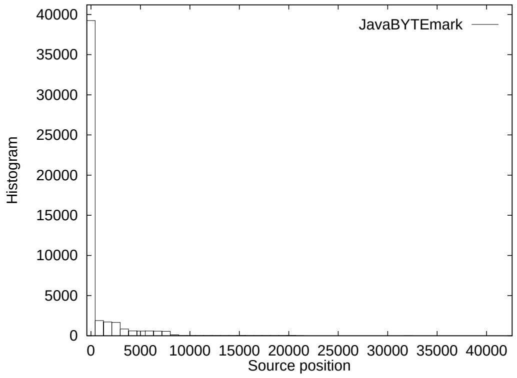


(b) Distribution of pointer target positions

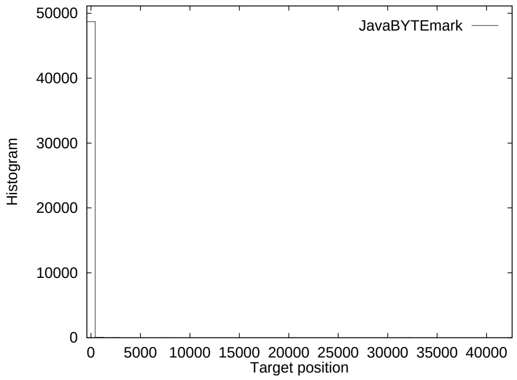


(c) Distribution of pointer distances

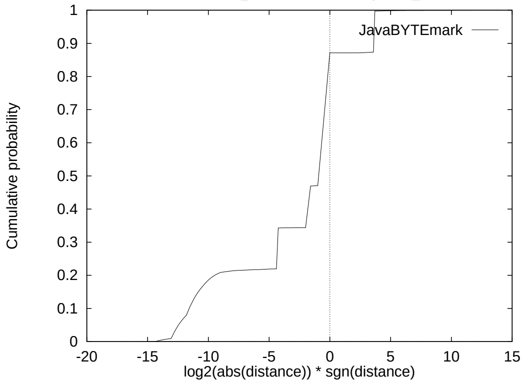
Figure 6.22. Pointer store heap position: Richards.



(a) Distribution of pointer source positions

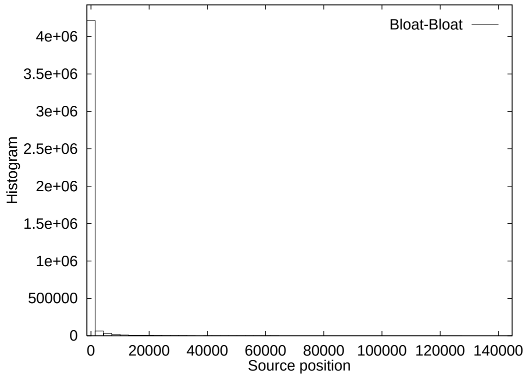


(b) Distribution of pointer target positions

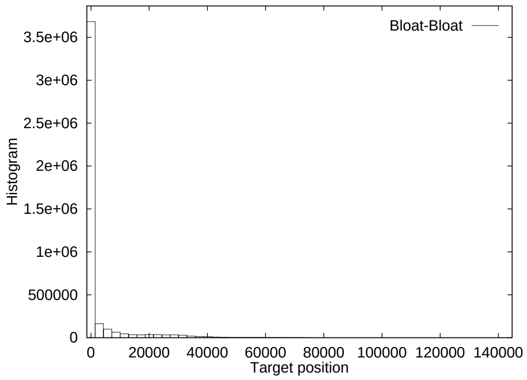


(c) Distribution of pointer distances

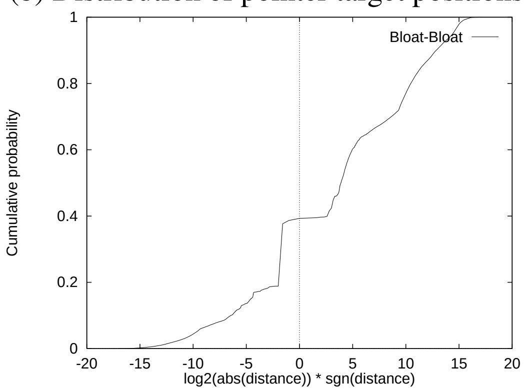
Figure 6.23. Pointer store heap position: JavaBYTEmark.



(a) Distribution of pointer source positions

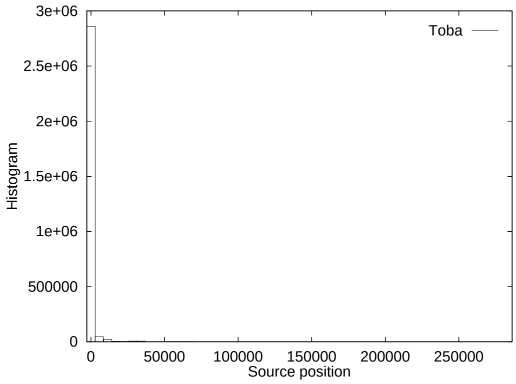


(b) Distribution of pointer target positions

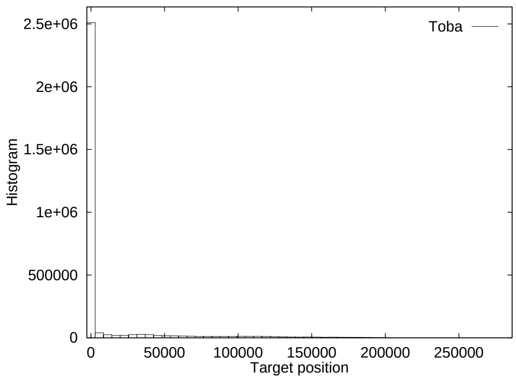


(c) Distribution of pointer distances

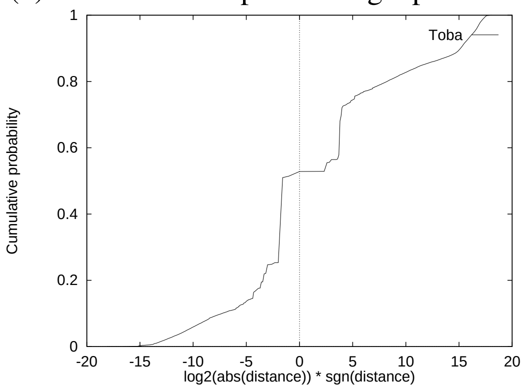
Figure 6.24. Pointer store heap position: Bloat-Bloat.



(a) Distribution of pointer source positions

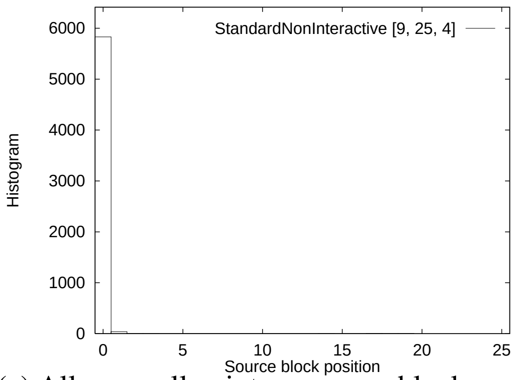


(b) Distribution of pointer target positions

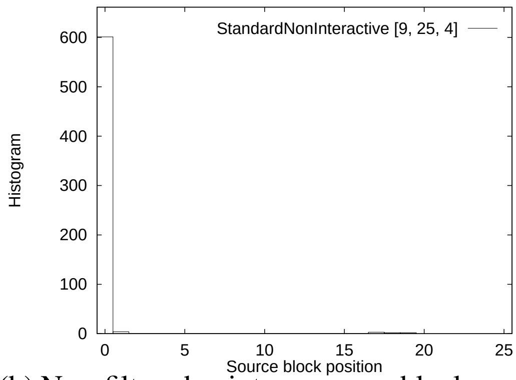


(c) Distribution of pointer distances

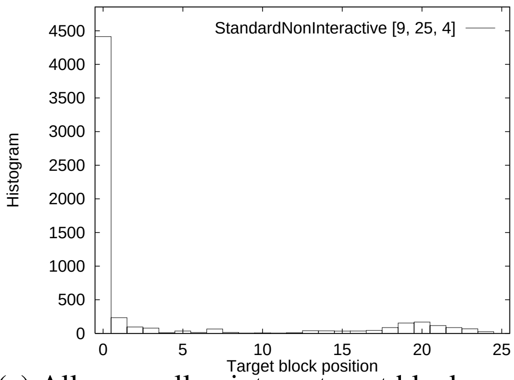
Figure 6.25. Pointer store heap position: Toba.



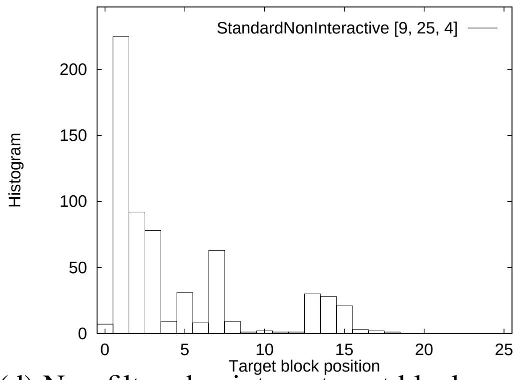
(a) All non-null pointers: source block position



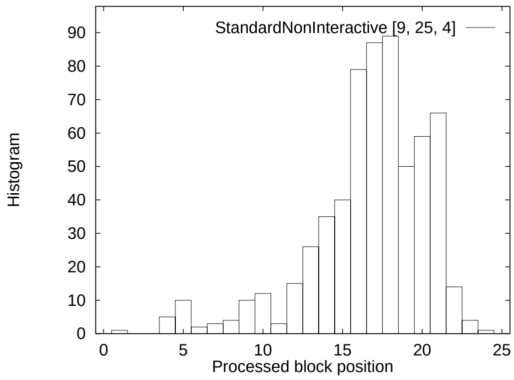
(b) Non-filtered pointers: source block position



(c) All non-null pointers: target block position

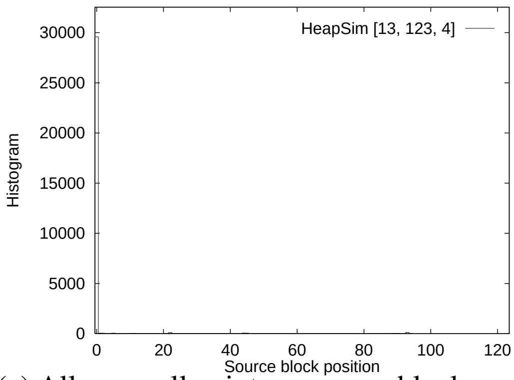


(d) Non-filtered pointers: target block position

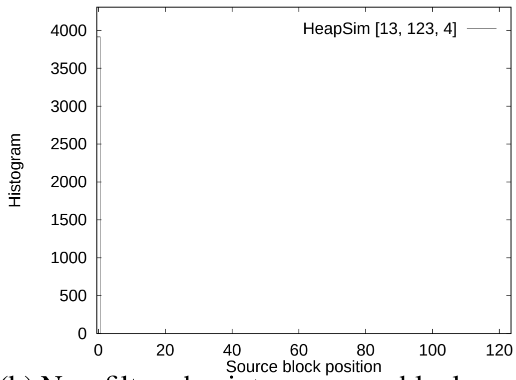


(e) Processed remembered set entry block position

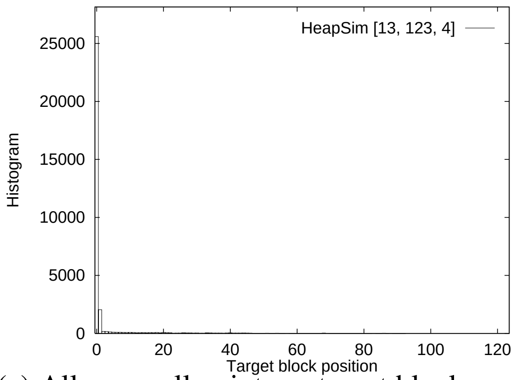
Figure 6.26. DOF pointer position distributions: StandardNonInteractive.



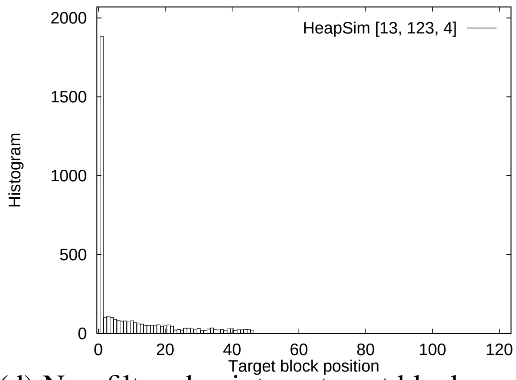
(a) All non-null pointers: source block position



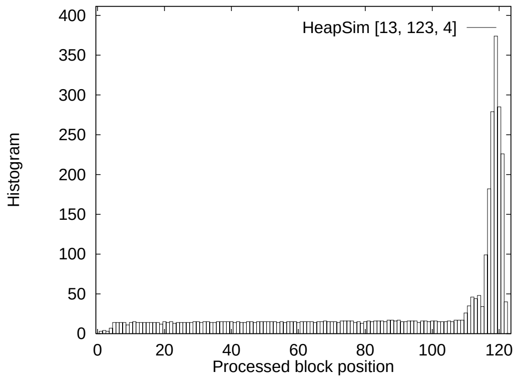
(b) Non-filtered pointers: source block position



(c) All non-null pointers: target block position

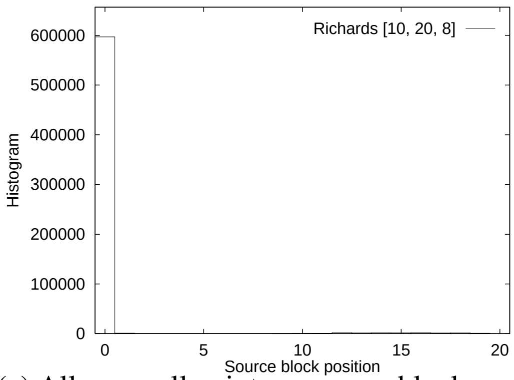


(d) Non-filtered pointers: target block position

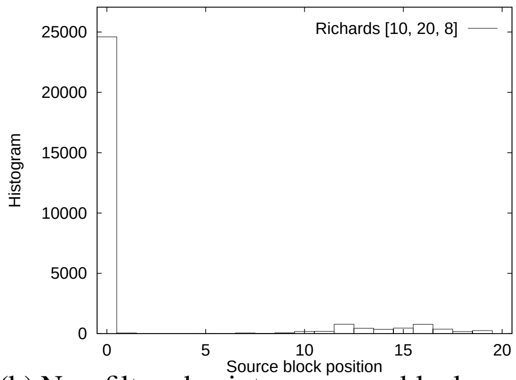


(e) Processed remembered set entry block position

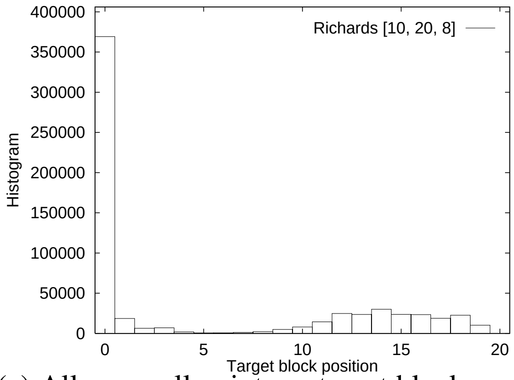
Figure 6.27. DOF pointer position distributions: HeapSim.



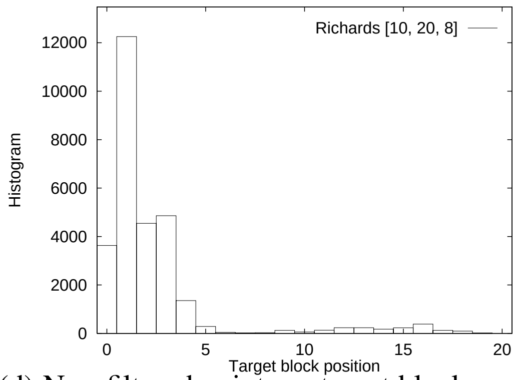
(a) All non-null pointers: source block position



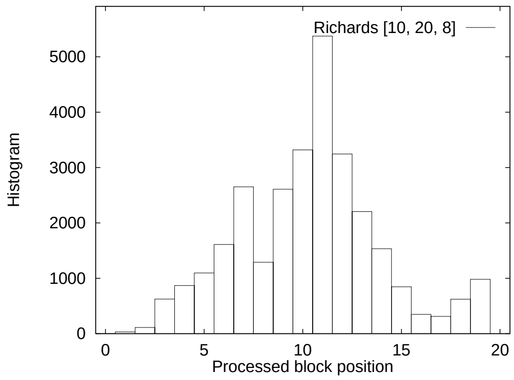
(b) Non-filtered pointers: source block position



(c) All non-null pointers: target block position

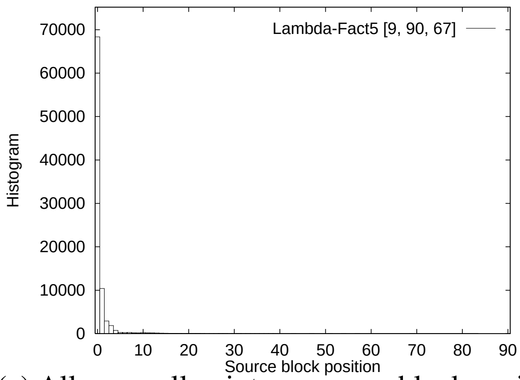


(d) Non-filtered pointers: target block position

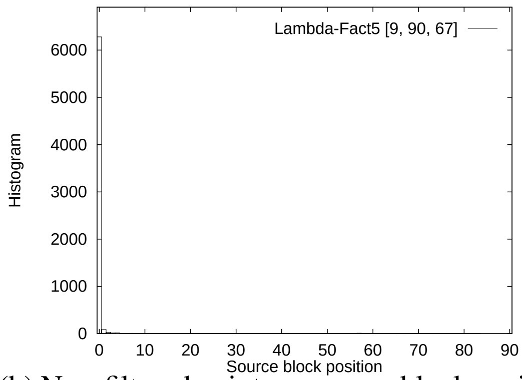


(e) Processed remembered set entry block position

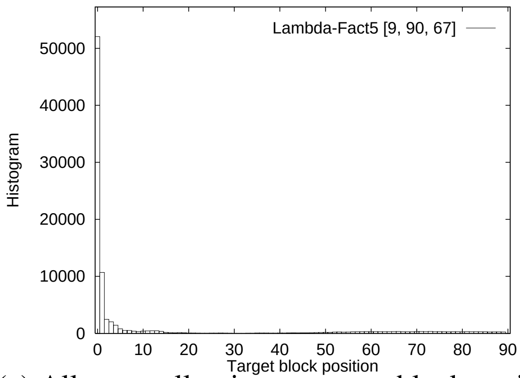
Figure 6.28. DOF pointer position distributions: Richards.



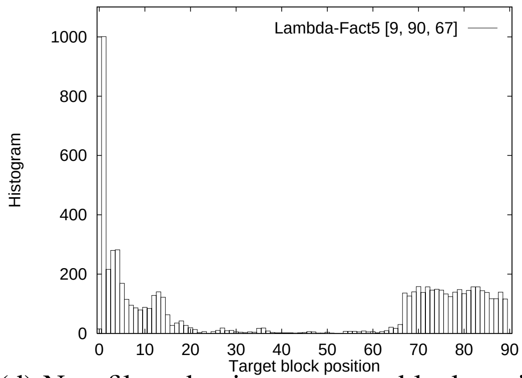
(a) All non-null pointers: source block position



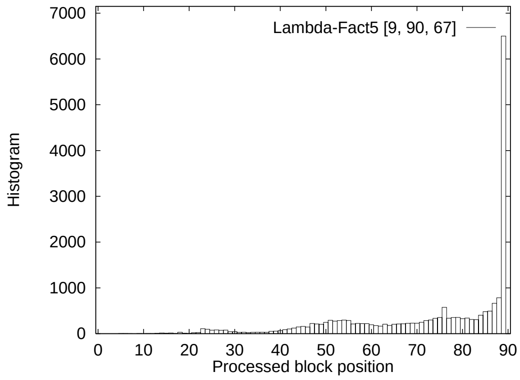
(b) Non-filtered pointers: source block position



(c) All non-null pointers: target block position

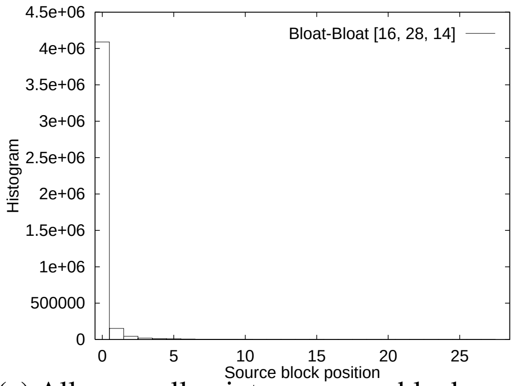


(d) Non-filtered pointers: target block position

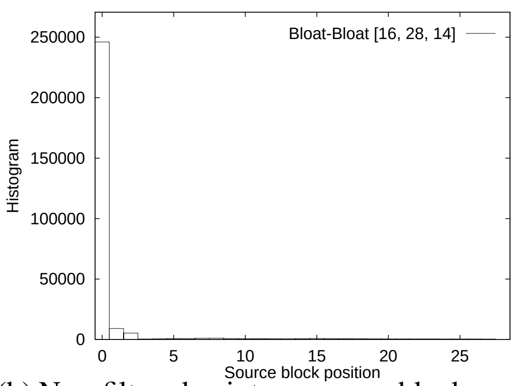


(e) Processed remembered set entry block position

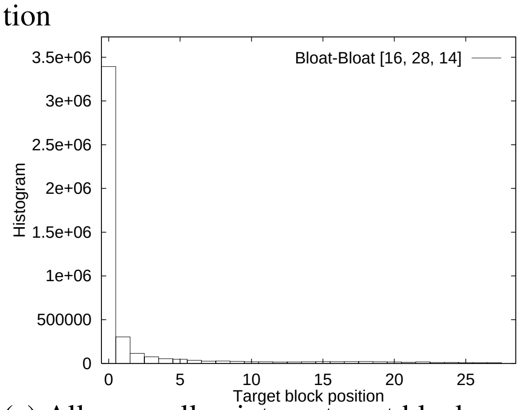
Figure 6.29. DOF pointer position distributions: Lambda-Fact5.



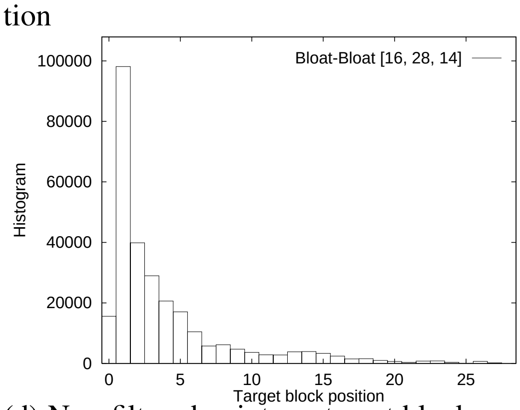
(a) All non-null pointers: source block position



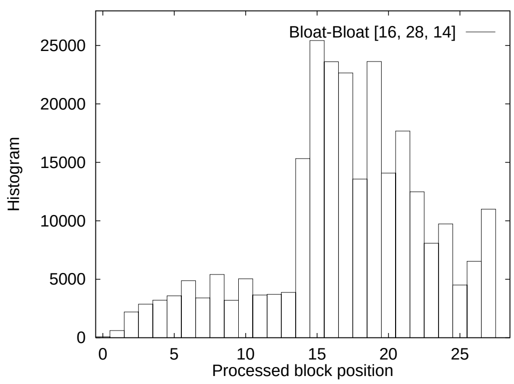
(b) Non-filtered pointers: source block position



(c) All non-null pointers: target block position

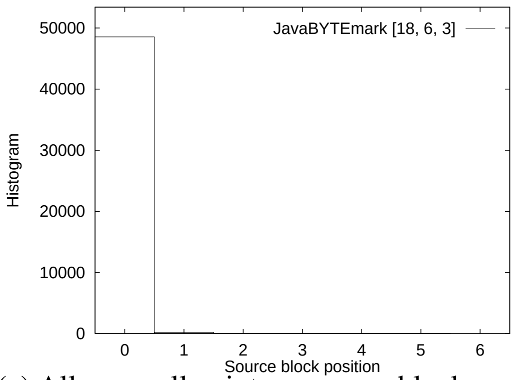


(d) Non-filtered pointers: target block position

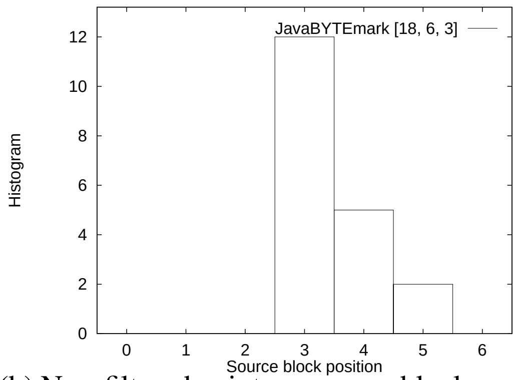


(e) Processed remembered set entry block position

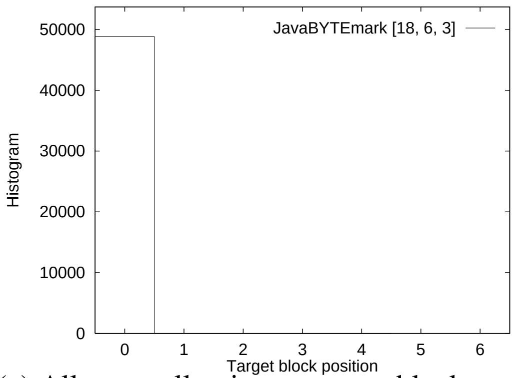
Figure 6.30. DOF pointer position distributions: Bloat-Bloat.



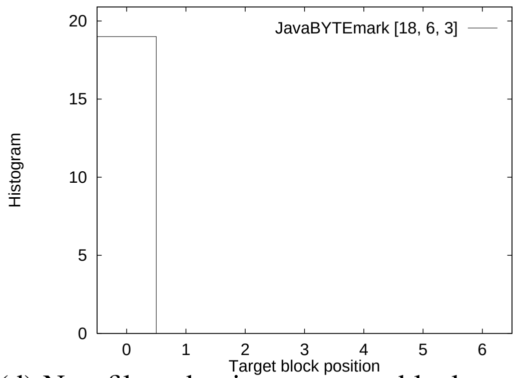
(a) All non-null pointers: source block position



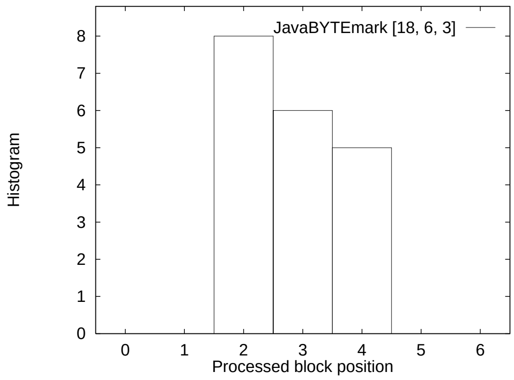
(b) Non-filtered pointers: source block position



(c) All non-null pointers: target block position



(d) Non-filtered pointers: target block position



(e) Processed remembered set entry block position

Figure 6.31. DOF pointer position distributions: JavaBYTEmark.