

Differences between the conference version and the submission.

- The conference version gives a restricted “linear” criterion for local and global deadlock freedom which is *not* complete for local and global deadlock-freedom. The submission gives an “alternating” AND-OR criterion, which is complete for local and global deadlock freedom. The linear criterion can fail in cases where the alternating criterion succeeds in verifying deadlock freedom. The linear condition is actually a special case of the AND-OR condition.
- The submission provides new results concerning the graph-theoretic properties of the waiting patterns that constitute a local or global deadlock.
- Submission provides experiments that are new and different from the conference version, and which, among other results, give an example where the linear criterion fails while the AND-OR criterion succeeds. Experiments also deal with more challenging examples than in the conference version, including a generalization of Milner’s token-based scheduler.