

8.1 Any language in $SPACE(f(n))$ as defined using the two-tape read-only model can be simulated with a single tape model using at most $O(n)$ space. Similarly, any language in $SPACE(f(n))$ as defined using a single tape model can be simulated with a two-tape read-only model with an improvement of at most $O(n)$ space. Thus, the complexity classes are equivalent where $f(n) \geq n$.