Norio Iwase* (iwase@math.kyushu-u.ac.jp), Faculty of Mathematics, Kyushu Univeristy, Motooka 744, Fukuoka, Fukuoka 819-0395, Japan. *Upper bound for monoidal topological complexity*.

We show $tc^{M}(M) \leq 2 \operatorname{cat}(M)$ for a finite simplicial complex M. For example, we have $tc^{M}(S^{n} \vee S^{m}) = 2$ for any positive integers n, m. (Received September 04, 2019)