1067-05-2322 Thomas Langley\* (langley@rose-hulman.edu), Rose-Hulman Institute of Technology, Department of Mathematics, CM144, 5500 Wabash Ave., Terre Haute, IN 47803, and Jeffrey Remmel, University of California, San Diego. Enumerating embeddings under generalized factor orders. Preliminary report.

Given a partially ordered set P, an embedding of a word u into a word w under generalized factor order relative to P is a subword v of w, of the same length as u, such that each character of v is greater than or equal to its corresponding character of u under the ordering of P. Recent work has resulted in generating functions for words that embed a fixed word under various generalized factor orders over the positive integers, with counters for the length of a word and the sum of the characters of a word. We explore methods to add a counter for the number of embeddings, as well. (Received September 22, 2010)