Title: An order result for the exponential divisor function

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The integer \( d = \prod_{i=1}^{s} p_i^{b_i} \) is called an exponential divisor of \( n = \prod_{i=1}^{s} p_i^{a_i} > 1 \) if \( b_i \mid a_i \) for every \( i \in \{1, 2, \ldots, s\} \). Let \( \tau^{(c)}(n) \) denote the number of exponential divisors of \( n \), where \( \tau^{(c)}(1) = 1 \) by convention. The aim of the present paper is to establish an asymptotic formula with remainder term for the \( r \)-th power of the function \( \tau^{(c)} \), where \( r \geq 1 \) is an integer. This improves an earlier result of M. V. Subbarao [?].

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