

TABLE ERRATA TO  
“FACTORS OF GENERALIZED FERMAT NUMBERS”

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ABSTRACT. We note that three factors are missing from Table 1 in *Factors of generalized Fermat numbers* by A. Björn and H. Riesel published in Math. Comp. **67** (1998), 441–446.

In Table 1 in Björn–Riesel [2] there are unfortunately three factors missing. Fougeron [3] discovered that

$$31246291 \cdot 2^{52} + 1 \mid 11^{2^{51}} + 1 \quad \text{and} \quad 33797295 \cdot 2^{65} + 1 \mid 10^{2^{62}} + 3^{2^{62}}.$$

He also verified that no other factors are missing for  $30 \leq n \leq 703$ , given the search ranges mentioned in [2].

M. Schroeder [4] and later N. S. de Araújo Melo [1] discovered that  $3 \cdot 2^{54792} + 1$  is a prime. This number is missing in the list of primes given in Young [5], a list which had kindly been made available to us when we wrote [2] and which we used without checking. This number is therefore also missing in Table 1 in [2]. The number  $3 \cdot 2^{54792} + 1$  is a factor in

$$\begin{array}{cccc} 3^{2^{54787}} + 1, & 5^{2^{54786}} + 1, & 5^{2^{54787}} + 3^{2^{54787}}, & 7^{2^{54790}} + 1, \\ 7^{2^{54790}} + 3^{2^{54790}}, & 7^{2^{54790}} + 5^{2^{54790}}, & 4^{2^{54790}} - 2^{2^{54790}} + 1, & 8^{2^{54790}} + 3^{2^{54790}}, \\ 8^{2^{54790}} + 5^{2^{54790}}, & 8^{2^{54787}} + 7^{2^{54787}}, & 9^{2^{54785}} + 5^{2^{54785}}, & 9^{2^{54790}} + 7^{2^{54790}}, \\ 9^{2^{54790}} + 8^{2^{54790}}, & 11^{2^{54791}} + 2^{2^{54791}}, & 11^{2^{54791}} + 6^{2^{54791}}, & \text{and } 11^{2^{54791}} + 10^{2^{54791}}. \end{array}$$

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