TABLE ERRATA 2 TO
"FACTORS OF GENERALIZED FERMAT NUMBERS"

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Abstract. We note that one more factor is missing from Table 1 in Björn–Riesel, Factors of generalized Fermat numbers, Math. Comp. 67 (1998), 441–446, in addition to the three already reported upon in Björn–Riesel, Table errata to “Factors of generalized Fermat numbers”, Math. Comp. 74 (2005), p. 2099.

Table 1 in Björn–Riesel [1] unfortunately contains four factors missing, three of which were reported upon in Björn–Riesel [2]. The fourth missing factor is

\[ 75 \cdot 2^{9063} + 1 \mid 7^{29062} + 2^{9062}, \]

which was discovered by A. Wesolowski [3]. This prime is missing from the list of primes in Table 5 of Riesel [5]. As explained by Keller [3] the omission of this factor was due to a typo in a list of primes that was kindly provided by him for the preparation of Table 5 in [5]. The prime \( 75 \cdot 2^{9066} + 1 \) reported therein should have been \( 75 \cdot 2^{9063} + 1 \); cf. http://www.prothsearch.net/riesel.html.

Let us also take this opportunity to mention that the three numbers reported as \( \text{PRP}1092, \text{PRP}1720 \) and \( \text{PRP}3427 \) in [1] (factors of \( 12^{110} + 11^{110}, 7^{211} + 3^{211} \) and \( 7^{12} + 3^{12}, \) respectively), have recently been verified to be primes by J. Berg [3] (the first two) and Morain [4] (the last). For further factors of generalized Fermat numbers, beyond the search ranges in [1], see Keller’s webpage:

http://www1.uni-hamburg.de/RRZ/W.Keller/GFNfacs.html

References

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