1096-05-2392 **Geoffrey Exoo*** (ge@cs.indstate.edu), Department of Mathematics and Computer Scienc, Indiana State University, Terre Haute, IN 47809. *On the Conjecture of Erdős and Gyárfás.* Preliminary report.

The Erdős and Gyárfás Conjecture states that any graph with minimum degree three contains a cycle whose length is a power of two. Over the years the speaker has collected a lot of data related to this conjecture. Perhaps in the hands of others, this data could lead to progress on the problem. So partial results on the problem are summarized. Such results include solutions for sequences of integers that are slightly less dense, and slightly more dense, than the powers of two. It appears that the powers of two are precisely the right sequence to make the problem difficult. (Received September 17, 2013)