



Bilkent University
Department of Mathematics

PROBLEM OF THE MONTH

Term: November 2006

Let $x_1, x_2, \dots, x_{2006}$ be positive real numbers satisfying the condition

$$\frac{1}{1+x_1} + \frac{1}{1+x_2} + \dots + \frac{1}{1+x_{2006}} = 1.$$

Find the minimal possible value of the expression $x_1 x_2 \dots x_{2006}$.