— MODULE euclid -

EXTENDS Integers, Sequences

VARIABLE x, y

$$Init \stackrel{\Delta}{=} \wedge x = 1024 \\ \wedge y = 400$$

Euclid's Algorithm for finding the greatest common divisor of two numbers.

$$Next \stackrel{\triangle}{=} \lor \land x > y$$

$$\land x' = x - y$$

$$\land y' = y$$

$$\lor \land y > x$$

$$\land y' = y - x$$

$$\land x' = x$$

Invariant $\stackrel{\triangle}{=} x \neq y$

- $\backslash \ * \ \operatorname{Modification} \ \operatorname{History}$
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