Z Examples Found on the Internet

September 18, 2014

1 Introduction

1.1 Z section heading

section gearsystem parents $standard_toolkit$

1.2 Free types paragraph

$$gearing ::= Single \mid Hub \langle \langle \mathbb{N} \rangle \rangle \mid Derailleurs \langle \langle \mathbb{N} \times \mathbb{N} \rangle \rangle$$

1.3 Horizontal definition paragraph

 $Wellgeared == [gears : gearing \mid gears \in ran \ Derailleurs]$

1.4 Generic axiomatic description paragraph

$$First: X \times Y \to X$$

$$Second: X \times Y \to Y$$

$$\forall x: X; \ y: Y \bullet$$

$$First \ (x, y) = x \land$$

$$Second \ (x, y) = y$$

1.5 Schema definition paragraph

1.6 Generic schema definition paragraph

1.7 Axiomatic description paragraph

1.8 Conjecture paragraph

Lemma1 ==

 \vdash ? numgears(Derailleurs(3,7)) = 21