

Synthesized solution for benchmark 05thttpdWr.c

```

solution
├─ (Partial), cond  $a_{12}$ :  compress > 0
│   └─ {
│       Case  $a_{12}$  :
│        $k_1 = (a_{12} \cdot C()) = \text{compress}(); \cdot I() = \text{write\_headers}(); \cdot T() = \text{httpd\_ssl\_write}(); + \neg a_{12} \cdot I() = \text{write\_headers}(); \cdot T() = \text{httpd\_ssl\_write}(); \cdot W_{\text{err}} = \text{write(out)};$ 
│        $k_2 = K_t = \text{nondet}(); \cdot (b_{21} \cdot I() = \text{write\_headers}(); + \neg b_{21} \cdot 1) \cdot W_{\text{err}} = \text{write(out)};$ 
│       └─ (Partial), cond  $b_{21}$ :  t > 0
│           └─ {
│               Case  $b_{21}$  :
│                $k_1 = 1 \cdot M() = \text{compress}(); \cdot I() = \text{write\_headers}(); \cdot T() = \text{httpd\_ssl\_write}(); \cdot W_{\text{err}} = \text{write(out)};$ 
│                $k_2 = K_t = \text{nondet}(); \cdot (b_{21} \cdot I() = \text{write\_headers}(); + \neg b_{21} \cdot 1) \cdot W_{\text{err}} = \text{write(out)};$ 
│               └─ AComplete
│                   └─ {
│                       Axioms : { $K = 1, M = 1, P = 1$ }
│                        $k_1 = 1 \cdot M() = \text{compress}(); \cdot I() = \text{write\_headers}(); \cdot P() = \text{httpd\_ssl\_write}(); \cdot W_{\text{err}} = \text{write(out)};$ 
│                        $k_2 = K_t = \text{nondet}(); \cdot 1 \cdot I() = \text{write\_headers}(); \cdot W_{\text{err}} = \text{write(out)};$ 
│                   }
│           }
│   }
├─ {
│   Case  $\neg a_{12}$  :
│    $k_1 = (a_{12} \cdot C()) = \text{compress}(); \cdot I() = \text{write\_headers}(); \cdot T() = \text{httpd\_ssl\_write}(); + \neg a_{12} \cdot I() = \text{write\_headers}(); \cdot T() = \text{httpd\_ssl\_write}(); \cdot W_{\text{err}} = \text{write(out)};$ 
│    $k_2 = K_t = \text{nondet}(); \cdot (b_{21} \cdot I() = \text{write\_headers}(); + \neg b_{21} \cdot 1) \cdot W_{\text{err}} = \text{write(out)};$ 
│   └─ (Partial), cond  $b_{21}$ :  t > 0
│       └─ {
│           Case  $b_{21}$  :
│            $k_1 = 1 \cdot I() = \text{write\_headers}(); \cdot T() = \text{httpd\_ssl\_write}(); \cdot W_{\text{err}} = \text{write(out)};$ 
│            $k_2 = K_t = \text{nondet}(); \cdot (b_{21} \cdot I() = \text{write\_headers}(); + \neg b_{21} \cdot 1) \cdot W_{\text{err}} = \text{write(out)};$ 
│           └─ AComplete
│               └─ {
│                   Axioms : { $K = 1, P = 1$ }
│                    $k_1 = 1 \cdot I() = \text{write\_headers}(); \cdot P() = \text{httpd\_ssl\_write}(); \cdot W_{\text{err}} = \text{write(out)};$ 
│                    $k_2 = K_t = \text{nondet}(); \cdot 1 \cdot I() = \text{write\_headers}(); \cdot W_{\text{err}} = \text{write(out)};$ 
│               }
│       }
│   }

```

Remaining 60 solutions omitted for brevity.