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ImpFoldZero.v

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```
Require Import List.
Require Import String.
Require Import ZArith.

Open Scope list_scope.
Open Scope string_scope.
Open Scope Z_scope.

Require Import StructTactics.
Require Import ImpSyntax.
Require Import ImpCommon.
Require Import ImpExprTransf.
Require Import ImpInterpNock.

Module I := ImpInterpNock.

(**
  TODO
  update this definition to optimize
  any additions or multiplications by zero
*)
Definition cfold_aux (e : expr) : expr :=
  e.

Definition cfold_e : expr -> expr :=
  transf_e cfold_aux.

Definition cfold (p : prog) : prog :=
  transf_p cfold_e p.
```