????

$_{b}fffor]temp =$
$b+$
$c; d =$
$temp; d =$
$c; e = e =$
$b+$
$c*$
$2; f =$
$(temp*$
$3)*$
$3;$
MI
$MaxLen$
$Opc \leftarrow$
MI
$Opc \notin$
$\{GMEMCPY, GMEMMOVE, GMEMSET\}$
Dst
Src
Len
MI
$DstAlign$
$SrcAlign$
Len
$Len =$
0
MI
$IsVolatile \leftarrow$
$Opc =$
$GMEMCPYINLINE$
$IsVolatile$
or
$MaxLen >$
0
and
$Len >$
$MaxLen$
$Opc =$
$GMEMCPY$
$Opc =$
$GMEMMOVE$
$Opc =$
$GMEMSET$

????

$_{b}fffor]$

$add(zext\, x, zext\, y)$

$op\big(ext\, x, ext\, y\big) \;\Rightarrow\; ext\big(op(x, y)\big)$

$_{t}b]classepo_{b}ase <$
$Instructionopcode, InstructionextOpcode >:$
$GICombineRule <$
$(defsroot :$
$ext1, ExtMI, (extOpcode$
$src2), (opcode$
$ext1, root, [returnmatchEPO(*$
$dst,$
$src2);]), (apply[applyEPO(*$
$ExtMI- >$
$getOpcode() ==$
$TargetOpcode ::$
$G_{S}EXT,$
$src1,$

$_{c}on1_{b}fffor]ADDIVGLGR20x0; MOVIGLGR20x1;$
$[-2^{15}, 2^{15}-$
$1]$

$_{c}on2_{b}fffor]MOVIGLGR20xF123; MOVIGLGR20xF123;$
C

$$C = 2^n \pm 1 \tag{1}$$

$$C = (2^n \pm 1) \times 2^m \tag{2}$$

$$x \times (2^n + 1) = (x \ll n) + x \tag{3}$$

$$x \times (2^n - 1) = (x \ll n) - x \tag{4}$$