

[PATCH 10/40] KVM: x86 emulator: group decoding for group 1 instructions

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2008-03/msg12016.html>

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 - *Date:* Mon, 31 Mar 2008 17:36:54 +0300
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Opcodes 0x80-0x83

Signed-off-by: Avi Kivity <avi@xxxxxxxxxxxxx>

arch/x86/kvm/x86_emulate.c | 25 ++++++
1 files changed, 23 insertions(+), 2 deletions(-)

diff --git a/arch/x86/kvm/x86_emulate.c b/arch/x86/kvm/x86_emulate.c
index ef6de16..22900f7 100644

--- a/arch/x86/kvm/x86_emulate.c

+++ b/arch/x86/kvm/x86_emulate.c

@@ -70,6 +70,7 @@

#define GroupMask 0xff /* Group number stored in bits 0:7 */

enum {

+ Group1_80, Group1_81, Group1_82, Group1_83,
Group1A, Group3_Byte, Group3, Group4, Group5, Group7,
};

@@ -130,8 +131,8 @@ static u16 opcode_table[256] = {

ImplicitOps, ImplicitOps, ImplicitOps, ImplicitOps,

ImplicitOps, ImplicitOps, ImplicitOps, ImplicitOps,

/* 0x80 - 0x87 */

- ByteOp | DstMem | SrcImm | ModRM, DstMem | SrcImm | ModRM,

- ByteOp | DstMem | SrcImm | ModRM, DstMem | SrcImmByte | ModRM,

+ Group | Group1_80, Group | Group1_81,

+ Group | Group1_82, Group | Group1_83,

ByteOp | DstMem | SrcReg | ModRM, DstMem | SrcReg | ModRM,

ByteOp | DstMem | SrcReg | ModRM, DstMem | SrcReg | ModRM,

/* 0x88 - 0x8F */

@@ -236,6 +237,26 @@ static u16 twobyte_table[256] = {

};

static u16 group_table[] = {

+ [Group1_80*8] =

+ ByteOp | DstMem | SrcImm | ModRM, ByteOp | DstMem | SrcImm | ModRM,

+ ByteOp | DstMem | SrcImm | ModRM, ByteOp | DstMem | SrcImm | ModRM,

+ ByteOp | DstMem | SrcImm | ModRM, ByteOp | DstMem | SrcImm | ModRM,

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+ ByteOp | DstMem | SrcImm | ModRM, ByteOp | DstMem | SrcImm | ModRM,
+ [Group1_81*8] =
+ DstMem | SrcImm | ModRM, DstMem | SrcImm | ModRM,
+ DstMem | SrcImm | ModRM, DstMem | SrcImm | ModRM,
+ DstMem | SrcImm | ModRM, DstMem | SrcImm | ModRM,
+ DstMem | SrcImm | ModRM, DstMem | SrcImm | ModRM,
+ [Group1_82*8] =
+ ByteOp | DstMem | SrcImm | ModRM, ByteOp | DstMem | SrcImm | ModRM,
+ ByteOp | DstMem | SrcImm | ModRM, ByteOp | DstMem | SrcImm | ModRM,
+ ByteOp | DstMem | SrcImm | ModRM, ByteOp | DstMem | SrcImm | ModRM,
+ ByteOp | DstMem | SrcImm | ModRM, ByteOp | DstMem | SrcImm | ModRM,
+ [Group1_83*8] =
+ DstMem | SrcImmByte | ModRM, DstMem | SrcImmByte | ModRM,
+ DstMem | SrcImmByte | ModRM, DstMem | SrcImmByte | ModRM,
+ DstMem | SrcImmByte | ModRM, DstMem | SrcImmByte | ModRM,
+ DstMem | SrcImmByte | ModRM, DstMem | SrcImmByte | ModRM,
[Group1A*8] =
DstMem | SrcNone | ModRM | Mov | Stack, 0, 0, 0, 0, 0, 0, 0,
[Group3_Byte*8] =
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1.5.4.5

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