Written by Stefano Tommesani Thursday, 27 May 2010 14:08 - Last Updated Monday, 27 May 2013 15:09

# **General Support Intrinsics**

Intrincip Signaturation Instruction \_mm\_empty Emptiletsalphallabilicable mm cvtsi32 si64 ConMertils of the Carbination Con Mertils of the Carlotte ble mm cvtsi64 si32 mm packs pi16 PacksesYesPACKSSWB mm packs pi32 PacksesYesPACKSSDW mm packs pu16 Packso YesPACKUSWB mm unpackhi pi8 InterNext Nation Palphalifted Killel BW mm unpackhi pi16 InterNext Nates Fail of Shift Real of Med WD mm unpackhi pi32 InterNear National And Annual Control of the DQ mm unpacklo pi8 InterNext Natabali Real Mile BW mm unpacklo pi16 mm unpacklo pi32 InterNext Natest Palota Nation

#### **Packed Arithmetic Intrinsics**

IntriOpi Signing Correct pand dies uith statuce is bits

```
mm add pi8
             Addslot826pBA3DDBB
mm add pi16
               Adds/ot4a/b@PAADbeW
mm add pi32
               Addslot2d32FP@ACDPD
mm adds pi8
               Add\ses8/8, BASDDSB
mm adds pi16
               Add¥es4/16PAD6SW
mm adds pu8
               Addslo 8/8, BASDDUSB
mm adds pu16
                Addslo 4/16PA/D6USW
mm sub pi8
             SubMatatan pB63UbBB
mm sub pi16
              SubNatasto6FResatibBeW
mm sub pi32
              SubNat2xB2FEXBED
mm subs pi8
              Subtress 8. BSUBSB
mm subs pi16
                Subtrests 16P&UBSW
mm subs pu8
               SubMac&B, B&UBUSB
mm subs pu16
                SubMacts16P$/JBUSW
                Multipolitestoppi @ @ DWD
mm madd pi16
mm_mulhi pi16
                Multifoeises 16P M/U6L (HWM)h)
mm mullo pi16
                Multinboites to 6 Present State (1/0/W)
```

## **Logical Intrinsics**

IntrinsOperation responding instruction mm and si64 BitwiseANNO mm and si64 Logic ANNO N

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mm or si64 Bitwis@2007R
mm xor si64 Bitwis@26007R
mm xor si64 Bitwis@26007R

## **Compare Intrinsics**

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#### **Set Intrinsics**

#### Intring in the state of the sta

mm set pi32 Sets integet otatues
mm set pi16 Sets integet otatues
mm set pi8 Sets integet otatues
mm set1 pi32 Sets integet otatues
mm set1 pi32 Sets integet otatues
mm set1 pi36 Sets integet otatues
mm set1 pi8 Sets integet otatues
mm set1 pi8 Sets integet otatues
mm set1 pi8 Sets integet otatues
mm setr pi32 Sets integet otatues

### MMX Intrinsics - Stefano Tommesani

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