

S0

function calculation

S1

determinant

S2

S3

S4

S5

S6

R8 load from division when data is available

determinant inverted

S7

S8

S9

delta X

S10

S11

```
R1 <- x1;
R2 <- x2;
```

```
R3 <- R1 x R1; (Mul1)
R4 <- R2 x 2; (Mul2)
```

```
R3 <- R3 x R1; (Mul1)
R4 <- R1 - R4; (Sub2)
R5 <- R3 x 3; (Mul3)
```

```
R3 <- R3 - R2; (Sub1)
R4 <- R4 - 2; (Sub2)
R8 <- R5 x (-2); (Mul1)
R7 <- F20
```

```
R3 <- R3 - 1; (Sub1)
R4 <- R7 - R4; (Sub2)
R8 <- R8 + 1; (Add1)
R6 <- F10;
```

```
R3 <- R6 - R3; (Sub1)
R8 <- 1 / R8; (Div1)
```

```
R8 load from division when data
is available
```

```
R6 <- R8 x (-2); (Mul1)
R8 <- R8 x (-1); (Mul2)
R5 <- R5 x R8; (Mul3)
```

```
R6 <- R3 x R6; (Mul1)
R4 <- R4 x R8; (Mul2)
R5 <- R3 x R8; (Mul3)
R7 <- R5 x R4; (Mul4)
```

```
R3 <- R6 + R4; (Add1)
R5 <- R5 + R7; (Add2)
```

```
R1 <- R1 + R3; (Add1)
R2 <- R2 + R5; (Add2)
```