XPACD, XPACI, XPACLRI

Strip Pointer Authentication Code. This instruction removes the pointer authentication code from an address. The address is in the specified general-purpose register for XPACI and XPACD, and is in LR for XPACLRI.

The XPACD instruction is used for data addresses, and XPACI and XPACLRI are used for instruction addresses.

It has encodings from 2 classes: [Integer](#) and [System](#)

Integer
(FEAT_PAuth)

31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
1	1	0	1	1	0	1	0	1	1	0	0	0	0	0	1	0	1	0	0	0	D	1	1	1	1	1		Rd			

Rn

XPACD (D == 1)

```
XPACD <Xd>
```

XPACI (D == 0)

```
XPACI <Xd>
```

```
boolean data = (D == '1');
integer d = UInt(Rd);

if !IsFeatureImplemented(FEAT_PAuth) then
    UNDEFINED;
```

System
(FEAT_PAuth)

31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
1	1	0	1	0	1	0	1	0	1	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	1	1	1	1	1	1	1	1

```
        XPACLRI
```

```
integer d = 30;
boolean data = FALSE;
```

Assembler Symbols

<Xd>   Is the 64-bit name of the general-purpose destination register, encoded in the "Rd" field.

Operation

```
if IsFeatureImplemented(FEAT_PAuth) then
    X[d, 64] = Strip(X[d, 64], data);
```

Internal version only: isa v33.64, AdvSIMD v29.12, pseudocode no_diffs_2023_09_RC2, sve v2023-06_rel ; Build timestamp: 2023-09-18T17:56