# 读写指令

## 读指令

1.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 名称 | Run | Id | Instaddr | Rfu | func |
| 位宽(36) | 1 | 1 | 2 | 1 | 31 |
| 功能 |  |  |  |  |  |

1. Func

instaddr=0

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 名称 | Step0 | Size0 | base | fc\_size | fc |
| 位宽（31） | 2 | 7 | 14 | 7 | 1 |
|  | [30:29] | [28:22] | [21:8] | [7:1] | 0 |
|  |  |  |  |  |  |
| 功能 |  |  |  |  | 是否fc； |

Instaddr=1

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 名称 | relu | Ram\_sel | Mem\_sel | RGB\_C | Scale\_n | scale | Step1 | Size1 |
| 位宽（31） | 2 | 1 | 1 | 1 | 5 | 9 | 7 | 5 |
|  | [30:29] | 28 | 27 | 26 | [25:21] | [20:12] | [11:5] | [4:0] |

Instaddr=2

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 名称 | Rfu | fc\_clear | finish | Pool\_en | Pool\_width | rfu | acc\_size | rfu | acc\_base |
| 位宽(31) | 2 | 1 | 1 | 1 | 6 | 1 | 9 | 1 | 9 |
|  | [30:29] | 28 | 27 | 26 | [25:0] | 19 | [18:10] | 9 | [8:0] |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 56:52 | 51:43 | 42:35 | 35:31 | 30:29 | 28:22 | 21:8 | 7:1 | 0 |
| Scale\_n | scale | Step1 | Size1 | Step0 | Size0 | base | Fc\_size | fc |
| 87:82 | 81 | 80:72 | 71 | 70:62 | 61:60 | 59 | 58 | 57 |
| Pool\_width | xx | acc\_size | xx | acc\_base | relu | Ram\_sel | Mem\_sel | RGB\_C |
|  |  |  |  |  | 92:91 | 90 | 89 | 88 |
|  |  |  |  |  | xx | fc\_clear | finish | Pool\_en |

## 写指令

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 名称 | Run | Id | instaddr | func |
| 位宽(36) | 1 | 1 | 2 | 32 |
| 功能 | 35 | 34 | 33:32 |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 名称 | Base | Size | Info |  |  |  |  |
| 位宽(36) | 13 | 9 | 9 |  |  |  |  |
| 功能 | [30:18] | [17:9] | [8:0] |  |  |  |  |