|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| DOCUMENT | REGISTER | | SOFTWARE | | MANNIX |
| Operation | Address (offset) | | Size | | Name |
|  |  | |  | | ***CNN LAYAER*** |
| CNN Data window address | 0x0000 | | 31:0 | | ***CNN\_ADDRX*** |
| CNN weights window address | 0X0004 | | 31:0 | | ***CNN\_ADDRY*** |
| CNN return address | 0x0008 | | 31:0 | | ***CNN\_ADDRZ*** |
| CNN input length | 0x000B | | 31:0 | | ***CNN\_XM*** |
| CNN input width | 0x0010 | | 31:0 | | ***CNN\_XN*** |
| CNN weights length | 0x0014 | | 31:0 | | ***CNN\_YM*** |
| CNN weight width | 0x0018 | | 31:0 | | ***CNN\_YN*** |
|  |  | |  | | ***CNN\_STRAT*** |
|  |  | |  | | ***CNN\_DONE*** |
|  |  | |  | | ***PULLING LAYER*** |
| PULL Data window address | 0x001B | | 31:0 | | ***PL\_ADDRX*** |
| PULL return address | 0x0020 | | 31:0 | | ***PULL\_ADDRZ*** |
| PULL input length | 0x0024 | | 31:0 | | ***PULL\_XM*** |
| PULL input width | 0x0028 | | 31:0 | | ***PULL\_XN*** |
| PULL result length | 0x002B | | 31:0 | | ***PULL\_PM*** |
| PULL result width | 0x0030 | | 31:0 | | ***PULL\_PN*** |
|  |  | |  | | ***PULL\_START*** |
|  |  | |  | | ***PULL\_DONE*** |
|  |  | |  | | ***ACTIVATION LAYER*** |
| ACTIVATIN Data window address | 0x0034 | | 31:0 | | ***ACTIV\_ADDRX*** |
| ACTIVATION weights window address | 0X0038 | | 31:0 | | ***ACTIV\_XM*** |
| ACTIVATION return address | 0x003B | | 31:0 | | ***ACTIV\_XN*** |
|  |  | |  | | ***ACTIV\_START*** |
|  |  | |  | | ***ACTIV\_DONE*** |
|  |  | |  | | ***FULLY CONNECTED*** |
| FULLY CONNECTED Data vector address | | 0x0040 | | 31:0 | ***FC\_ADDRX*** |
| FULLY CONNECTED weights window address | | 0X0044 | | 31:0 | ***FC\_ADDRY*** |
| FULLY CONNECTED bias vector address | |  | |  | ***FC\_ADDRB*** |
| FULLY CONNECTED return vector address | | 0x0048 | | 31:0 | ***FC\_ADDRZ*** |
| FULLY CONNECTED input vector length | | 0x004B | | 31:0 | ***FC\_XM*** |
| FULLY CONNECTED weights window length | | 0x0050 | | 31:0 | ***FC\_YM*** |
| FULLY CONNECTED weights window width | | 0x0054 | | 31:0 | ***FC\_YN*** |
| FULLY CONNECTED bias vector length | | 0x0058 | | 31:0 | ***FC\_BN*** |
|  | |  | |  | ***FC\_START*** |
|  | |  | |  | ***FC\_DONE*** |