

LeNet

Frequency [MHz]

| Voltage [mV] | Frequency [MHz] | | | | | |
|--------------|-----------------|-------------|-------------|-------------|-------------|-------------|
| | 1140 | 1270 | 1350 | 1140 | 1530 | 1600 |
| 1200 | | | | | | <u>1.00</u> |
| 1150 | | | | | <u>0.86</u> | 0.84 |
| 1100 | | | | <u>0.77</u> | 0.76 | 0.75 |
| 1050 | | | <u>0.67</u> | 0.69 | 0.68 | |
| 1000 | | 0.56 | 0.61 | 0.63 | 0.63 | |
| 950 | <u>0.57</u> | 0.59 | 0.60 | | | |
| 900 | 0.57 | 0.59 | 0.59 | | | |

VGG11

Frequency [MHz]

| Voltage [mV] | Frequency [MHz] | | | | | |
|--------------|-----------------|-------------|-------------|-------------|-------------|-------------|
| | 1140 | 1270 | 1350 | 1140 | 1530 | 1600 |
| 1200 | | | | | | <u>1.00</u> |
| 1150 | | | | | <u>0.91</u> | 0.90 |
| 1100 | | | | <u>0.87</u> | 0.86 | 0.83 |
| 1050 | | | <u>0.83</u> | 0.81 | 0.80 | |
| 1000 | | <u>0.75</u> | 0.74 | 0.73 | | |
| 950 | <u>0.81</u> | 0.75 | 0.74 | | | |
| 900 | 0.80 | 0.75 | 0.74 | | | |

AlexNet

Frequency [MHz]

| Voltage [mV] | Frequency [MHz] | | | | | |
|--------------|-----------------|-------------|-------------|-------------|-------------|-------------|
| | 1140 | 1270 | 1350 | 1140 | 1530 | 1600 |
| 1200 | | | | | | <u>1.00</u> |
| 1150 | | | | | <u>0.91</u> | 0.87 |
| 1100 | | | | <u>0.82</u> | 0.80 | 0.79 |
| 1050 | | | <u>0.74</u> | 0.73 | 0.71 | |
| 1000 | | <u>0.68</u> | 0.66 | 0.66 | 0.65 | |
| 950 | <u>0.71</u> | 0.68 | 0.67 | | | |
| 900 | 0.71 | 0.68 | 0.66 | | | |

WideResNet

Frequency [MHz]

| Voltage [mV] | Frequency [MHz] | | | | | |
|--------------|-----------------|-------------|-------------|-------------|-------------|-------------|
| | 1140 | 1270 | 1350 | 1140 | 1530 | 1600 |
| 1200 | | | | | | <u>1.00</u> |
| 1150 | | | | | <u>0.93</u> | 0.91 |
| 1100 | | | | <u>0.84</u> | 0.81 | 0.80 |
| 1050 | | | <u>0.79</u> | 0.77 | 0.72 | |
| 1000 | | <u>0.72</u> | 0.71 | 0.69 | 0.67 | |
| 950 | <u>0.77</u> | 0.72 | 0.71 | | | |
| 900 | 0.76 | 0.71 | 0.70 | | | |

Underlined results correspond to default V-F pairs.