

## LeNet

Frequency [MHz]

| Voltage [mV] |      | 1140        | 1270        | 1350        | 1440        | 1530        | 1600        |
|--------------|------|-------------|-------------|-------------|-------------|-------------|-------------|
|              | 1200 |             |             |             |             |             | <u>1.00</u> |
|              | 1150 |             |             |             |             | <u>0.85</u> | 0.86        |
|              | 1100 |             |             |             | <u>0.77</u> | 0.76        | 0.77        |
|              | 1050 |             |             | <u>0.67</u> | 0.69        | 0.70        |             |
|              | 1000 |             | <u>0.60</u> | 0.59        | 0.63        | 0.62        |             |
|              | 950  | <u>0.57</u> | 0.60        | 0.60        |             |             |             |
|              | 900  | 0.58        | 0.59        | 0.60        |             |             |             |

## VGG11

Frequency [MHz]

| Voltage [mV] |      | 1140        | 1270        | 1350        | 1440        | 1530        | 1600        |
|--------------|------|-------------|-------------|-------------|-------------|-------------|-------------|
|              | 1200 |             |             |             |             |             | <u>1.00</u> |
|              | 1150 |             |             |             |             | <u>0.91</u> | 0.90        |
|              | 1100 |             |             |             | <u>0.82</u> | 0.81        | 0.82        |
|              | 1050 |             |             | <u>0.77</u> | 0.76        | 0.72        |             |
|              | 1000 |             | <u>0.73</u> | 0.70        | <b>0.69</b> |             |             |
|              | 950  | <u>0.78</u> | 0.73        | 0.70        |             |             |             |
|              | 900  | 0.78        | 0.73        | 0.71        |             |             |             |

## AlexNet

Frequency [MHz]

| Voltage [mV] |      | 1140        | 1270        | 1350        | 1440        | 1530        | 1600        |
|--------------|------|-------------|-------------|-------------|-------------|-------------|-------------|
|              | 1200 |             |             |             |             |             | <u>1.00</u> |
|              | 1150 |             |             |             |             | <u>0.90</u> | 0.89        |
|              | 1100 |             |             |             | <u>0.81</u> | 0.79        | 0.79        |
|              | 1050 |             |             | <u>0.72</u> | 0.73        | 0.71        |             |
|              | 1000 |             | <u>0.66</u> | 0.66        | 0.66        | 0.65        |             |
|              | 950  | <u>0.67</u> | 0.66        | <b>0.65</b> |             |             |             |
|              | 900  | 0.67        | 0.66        | 0.65        |             |             |             |

## WideResNet

Frequency [MHz]

| Voltage [mV] |      | 1140        | 1270        | 1350        | 1440        | 1530        | 1600        |
|--------------|------|-------------|-------------|-------------|-------------|-------------|-------------|
|              | 1200 |             |             |             |             |             | <u>1.00</u> |
|              | 1150 |             |             |             |             | <u>0.89</u> | 0.89        |
|              | 1100 |             |             |             | <u>0.80</u> | 0.78        | 0.79        |
|              | 1050 |             |             | <u>0.70</u> | 0.71        | 0.71        |             |
|              | 1000 |             | <u>0.63</u> | 0.63        | 0.64        | 0.65        |             |
|              | 950  | <u>0.65</u> | <b>0.62</b> | 0.62        |             |             |             |
|              | 900  | 0.66        | 0.63        | 0.63        |             |             |             |

Underlined results correspond to default V-F pairs.