

Figure 1: Input Distribution N(0,2) (solid), Output Distribution (dashed)

Consider the simple program that accepts an integer as input and returns its absolute value.

```
int abs(int x) {
  if (x<0)
    return -x;
  else
    return x;
}</pre>
```

Figure 1 shows the normally distributed input (in solid) and the output distribution which accumulates the probability mass of the negative inputs onto the negated positive values on output.