HardBlare: a Hardware-Assisted Approach for Dynamic Information Flow Tracking
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HardBlare proposes a software/hardware co-design methodology to ensure that security properties are preserved all along the execution of the system but also during files storage. The general context is to address Dynamic Information Flow Tracking (DIFT) that generally consists in attaching marks (also known as tags) to denote the type of information that are saved or generated within the system. Let’s suppose that “print” function is public and the tag of a variable x is underlined. Example code:

```plaintext
p = 3;  s = 42;
\( x = p + s; \)
\( x \leftarrow p + s = 3 \)
```

print(x); if \( x \neq \text{public} \)

raise interruption