

UNIVERSITETET I OSLO
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Reliable Systems

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IN [5/9]440: static analysis

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Handout 2

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Handout 2: Intro: Constraint-based analysis

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CBA

The abstract grammar of the functional language (currently) looks as follows:

$$t ::= [x]^l \mid [\text{fn } x \Rightarrow t]^l \mid [t \ t]^l \quad \text{terms}$$

The l stands for labels. Later, the grammar may be extended and refined.

Example 1 (Simple program) The very simple labeled program used in the example is the following:

$$[[\text{fn } x \Rightarrow [x]^1]^2 [\text{fn } y \Rightarrow [y]^3]^4]^5$$

References

- [1] Flemming Nielson, Hanne-Riis Nielson, and Chris L. Hankin. *Principles of Program Analysis*. Springer Verlag, 1999.