We address ...

- the formal parameters relatively to the frame-pointer;
- the local variables relatively to the stack-pointer

We must re-organize the complete code generation ...

Alternative: Passing of parameters in registers ...

In particular, the local variables reside in the new block ...

We address ...

- the formal parameters relatively to the frame-pointer;
- the local variables relatively to the stack-pointer

We must re-organize the complete code generation ...

Alternative: Passing of parameters in registers ...
The values of the actual parameters are determined **before** allocation of the new stack frame.

3. Idea: **Hybrid Solution**

- For the first $k$ threads, we allocate a separate stack area.
- For all further threads, we successively use one of the existing ones **!!!**

- For few threads extremely **simple** and **efficient**;
- For many threads **amortized** storage usage **:-(**
3. Idea: **Hybrid Solution**

- For the first $k$ threads, we allocate a separate stack area.
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The complete frame is allocated inside the new block – plus the space for the current parameters.