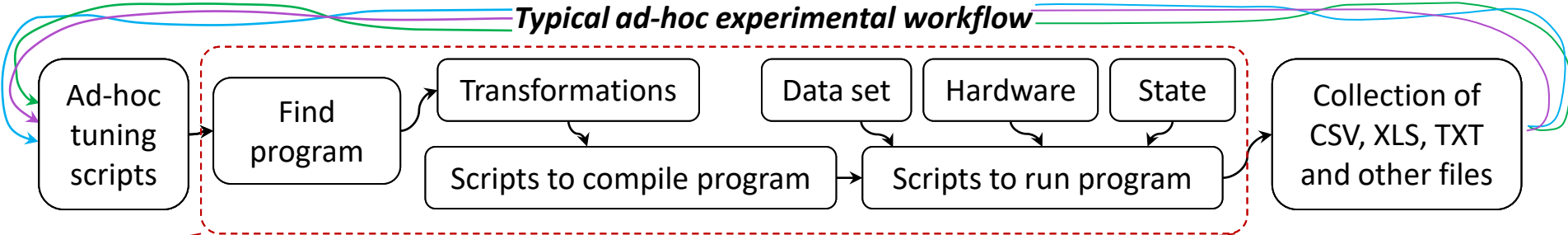
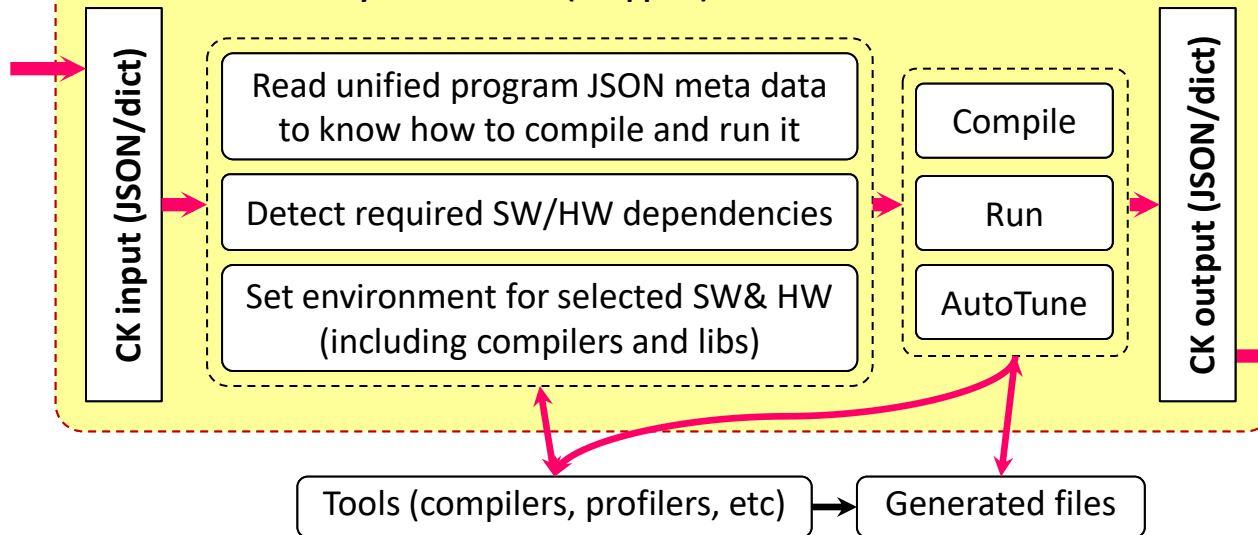


Typical ad-hoc experimental workflow



CK Python modules (wrappers) with a unified JSON API



Example of CK module "program" # (unified dict/JSON API)

```
import ck.kernel as ck
```

```
def compile(i):  
    # Process CMD  
    prog=i.get('data_uoa',"")  
    flags=i.get('flags',"")  
    speed=i.get('speed',"")
```

```
# Get program path, UID and meta(dict)  
r=ck.access({'action':'load',  
            'module_uoa':'program',  
            'data_uoa':prog})
```

```
if r['return']>0: return r  
path=r['path']  
uid=r['data_uid']  
meta=r['dict']
```

```
...  
return {'return':0}
```

```
# ck – simple command line front-end to manage CK repositories,  
# call CK modules, abstract tools and unify input/output  
ck compile program:cbench-automotive-susan --speed --flags=-O3 ...  
ck run program:cbench-automotive-susan  
ck autotune program:cbench-automotive-susan
```