

- The HPWL results from RePlace and DREAMPlace show similar trends, but to make them match more closely, we need to tweak the parameters in the JSON config files. The goal is to get similar HPWL values in much less runtime by making the behavior between both tools more alike.
- We also need to modify the DREAMPlace source code so it can handle and train on the following test designs:

IBEX_ASAP7 and JPEG_ASAP7:

```
[ASSERT ] /DREAMPlace/dreamplace/ops/place_io/src/PlaceDB.cpp:361: virtual void DreamPlace::PlaceDB::add_def_component(const DefParser::Component&): Assertion 'node.status() == PlaceStatusEnum::FIXED || node.status() == PlaceStatusEnum::PLACED' failed: non-CORE or non-BLOCK class cells must be FIXED or PLACED: _112416_ CORE TIEHIGH
Aborted (core dumped)
root@24266cf0321c:/DREAMPlace/install#
```

ARIANE136_NANGATE:

```
[ASSERT ] /DREAMPlace/dreamplace/ops/place_io/src/PlaceDB.cpp:1471: void DreamPlace::PlaceDB::addPin(const string&, DreamPlace::Net&, DreamPlace::Node&, std::string): Assertion 'macroPinId < std::numeric_limits<index_type>::max()' failed: failed to find pin clk in macro AND2_X1
Aborted (core dumped)
root@24266cf0321c:/DREAMPlace/install#
```