Parameter and Extra Layer Attribute

class paddle.trainer_config_helpers.attrs.**ParameterAttribute**(*name=None*, *is_static=False*, *initial_std=None*, *initial_mean=None*, *initial_max=None*, *initial_min=None*, *l1_rate=None*, *l2_rate=None*, *learning_rate=None*, *momentum=None*, *sparse_update=False*)

Parameter Attributes object. To fine-tuning network training process, user can set attribute to control training details, such as l1,l2 rate / learning rate / how to init param.

NOTE: IT IS A HIGH LEVEL USER INTERFACE.

Parameters:
- **is_static** (*bool*) — True if this parameter will be fixed while training.
- **initial_std** (*float or None*) — Gauss Random initialization standard deviation. None if not using Gauss Random initialize parameter.
- **initial_mean** (*float or None*) — Gauss Random initialization mean. None if not using Gauss Random initialize parameter.
- **initial_max** (*float or None*) — Uniform initialization max value.
- **initial_min** (*float or None*) — Uniform initialization min value.
- **l1_rate** (*float or None*) — the l1 regularization factor
- **l2_rate** (*float or None*) — the l2 regularization factor
- **learning_rate** (*float or None*) — The parameter learning rate. None means 1. The learning rate when optimize is LEARNING_RATE = GLOBAL_LEARNING_RATE * PARAMETER_LEARNING_RATE * SCHEDULER_FACTOR.
- **momentum** (*float or None*) — The parameter momentum. None means use global value.
- **sparse_update** (*bool*) — Enable sparse update for this parameter. It will enable both local and remote sparse update.

set_default_parameter_name(*name*)

Set default parameter name. If parameter not set, then will use default parameter name.

Parameters: **name** (*basestring*) — default parameter name.

class paddle.trainer_config_helpers.attrs.**ExtraLayerAttribute**(*error_clipping_threshold=None*, *drop_rate=None*, *device=None*)

Some high level layer attributes config. You can set all attributes here, but some layer doesn't support all attributes. If you set an attribute to a layer that not support this attribute, paddle will print an error and core.

Parameters:
- **error_clipping_threshold** (*float*) — Error clipping threshold.
- **drop_rate** (*float*) — Dropout rate. Dropout will create a mask on layer output. The dropout rate is the zero rate of this mask. The details of what dropout is please refer to here.
- **device** (*int*) —
  device ID of layer. device=-1, use CPU. device>0, use GPU. The details allocation in parallel_nn please refer to here.

paddle.trainer_config_helpers.attrs.**ParamAttr**

alias of **ParameterAttribute**

paddle.trainer_config_helpers.attrs.**ExtraAttr**

alias of **ExtraLayerAttribute**