

Confused by code?
Troubled by tests?
Pull requests got stuck?

HSEF

HEP Software Foundation

```
# Having exactly one path and its first element is startNodeName
while len(pathSet) == 1 or pathSet[0].path[0] is not startNodeName:
    msg.debug('Starting best path iteration with {0} paths in {1}'.format(len(pathSet), pathSet))
    # copy the pathSet to do this, as we will update it
    for path in pathSet[:]:
        msg.debug('Continuing path finding with path {0}'.format(path))
        currentNodeName = path.path[0]
        if currentNodeName is startNodeName:
            msg.debug('Path {0} has reached the start node - finished'.format(path))
            continue
        # If there are no paths out of this node then it's a dead end
        if len(self._nodeDict[currentNodeName].connections['in']) is 0:
            msg.debug('Path {0} is a dead end - removing'.format(path))
            pathSet.remove(path)
            continue
        # If there is only one path out of this node we extend it
        if len(self._nodeDict[currentNodeName].connections['in']) is 1:
            msg.debug('Single exit from path {0} - adding connection to {1}'.format(path, self._nodeDict[currentNodeName].connections['in'].keys()[0]))
            self._extendPath(path, currentNodeName, self._nodeDict[currentNodeName].connections['in'].keys()[0])
            continue
        # Else we need to clone the path for each possible exit
        msg.debug('Multiple exits from {0} - will clone for each extra exit'.format(path))
        for nextNodeName in self._nodeDict[currentNodeName].connections['in'].keys()[1:]:
            newPath = copy.deepcopy(path)
            msg.debug('Cloned exit from path {0} to {1}'.format(newPath, nextNodeName))
            self._extendPath(newPath, currentNodeName, nextNodeName)
            pathSet.append(newPath)
```

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