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Date: Tue, 1 Dec 2020 01:50:50 +0800
From: but13rflyhdck Cbutterflyhuangxx8...il.com>
To: oss-security@...ts.openwall.com
Subject: CVB-2020-27815 Linux kernel: jfs: array-index-out-of-bounds in dbAdjTree

Hello,
I report an array-index-out-of-bounds bugs in fs/jfs/jfs dmap.c in dbAdjTree and reproduce it in Linux kernel 5.9.6 version.

Description:
In the Linux kernel through 5.9.6, there is a array-index-out-of-bounds in fs/jfs/jfs dmap.c in dbAdjTree and it may cause out of bounds read and Denial of Service.

Root Cause:

the dmatree t is that typedef union dmtree {
    struct dmaptree t1;
    struct dmaptree t2;
    } dmtree_t;

the dmaptree is that struct dmaptree {
        [ 1632 nleafs; /* 4: number of tree leafs */
        [ 1632 nleafs; /* 4: height of the tree */
        88 budmin; /* 1: min 12 tree leaf value to combine */
        88 stree[TREESIZE]; /* TREESIZE: tree */
        1 le32 nleafs; /* 4: number of tree leafs */
        [ 1632 nleafs; /* 4: number of tree leafs */
        [ 1632 nleafs; /* 4: height of the tree */
        88 stree[TREESIZE]; /* TREESIZE: tree */
        1 le32 nleafs; /* 4: number of tree leafs */
        [ 1632 nleafs; /* 4: number of tree leafs */
        [ 1632 nleafs; /* 4: number of tree leafs */
        [ 1632 nleafs; /* 4: number of tree leafs */
        [ 1632 nleafs; /* 4: nidex of the first tree leaf */
        [ 1632 nleafs; /* 4: number of tree leafs */
        [ 1632 nleafs; /* 4: number of tree leafs */
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        [ 1632 nleafs; /* 4: number of tree leafs */
        [ 1632 nleafs; /* 4: number o
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